

# CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

## ANALYSES OF STRONG MOTION EARTHQUAKE ACCELEROGRAMS

VOLUME III - RESPONSE SPECTRA  
PART I - ACCELEROGRAMS II - I128 THROUGH II - I139

REPORT NO. EERL 74-81

A REPORT ON RESEARCH CONDUCTED UNDER A  
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

JANUARY, 1974

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Volume III - Response Spectra  
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## ABSTRACT

This is one of a series of reports presenting earthquake response spectrum curves calculated from corrected accelerograms. In the preface to the first part, Volume III, Part A, Report No. EERL 72-80, there is a summary of response spectrum techniques in earthquake engineering which is available as background material for the data. For each earthquake accelerogram, two spectrum plots are given - relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum is also shown on the linear plot. Digital print-outs of ordinates of the plotted curves are tabulated for each earthquake. The records analyzed in this report, Volume III, Part I, are the corrected accelerogram records of Volume II, Part I, Report No. EERL 74-51, and appeared in their uncorrected form in Volume I, Part I, Report No. EERL 72-22.

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## PREFACE TO VOLUME III, PART I

This report, Volume III, Part I, Report No. EERL 74-81, is part of the Volume III series presenting earthquake response spectrum curves calculated from corrected accelerograms. We continue here with records from the San Fernando, California, earthquake of February 9, 1971. The analysis of records from this earthquake appeared first in Volume III, Part C, Report No. EERL 73-81, and this continuation includes the analysis of records from the following locations:

1. 435 N. Oakhurst Avenue, Beverly Hills (3 records)
2. 420 N. Roxbury Drive, Beverly Hills (3 records)
3. 1800 Century Park East, Los Angeles (3 records)
4. 15910 Ventura Boulevard, Los Angeles (3 records)

The uncorrected versions of these records appeared in Volume I, Part I, Report No. EERL 72-22, and the corrected accelerations, velocities, and displacements were included in Volume II, Part I, Report No. EERL 74-51. The Volume II corrections included a long period cut-off of 8 seconds for the 70-mm film records in this part instead of the standard cut-off period of approximately 15 seconds. The results published here reflect this altered frequency band.

A number of very low amplitude accelerograms have been eliminated from the processing of Volume II and on, reflecting the expectation that the resulting displacements would be dominated by noise. Included in this group of accelerograms, and therefore eliminated from this part, is 1140 from the Borrego Springs Fire Department in Borrego Springs.

## NOTES ON THE VOLUME III SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II. A brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field appeared in Volume III, Part A, Report No. 72-80, and this may be referred to by those users who need more explanatory remarks than appear in the following.

The Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm.

Contents of the Various Parts. Part A of Volume III contained the response spectra analysis for the corrected records of Volume II, Part A, Report No. EERL 71-50. In turn, the "uncorrected" versions of these records appeared in Part A of Volume I. This arrangement has been maintained in all subsequent parts. In Part C of Volume III, Report No. EERL 73-81, we began the presentation of response spectra

analysis for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971. These are expected to be concluded with Part S. The reports following Part S will continue with the original selection of approximately one hundred strong-motion records whose presentation was initiated in Parts A and B.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume III are concerned with absolute values of the response and the particular component sense in this report is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent, 35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from

all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I, K, N, Q, R, S: All records in these parts.

Part J: Records J142, J145 through J150.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II and on), reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156; K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

Description of the Figures and Tables. For each component in the following pages there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date, and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIIA001, indicates that this analysis appears in Volume III, Part A, that the processed record belongs to Volume II, Part A, containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 40.001.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory during that year, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10, and 20 percent of critical, and these curves will usually be easily distinguishable, with the zero damped curve having the greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to

15 seconds, or 8 seconds, as the case may be, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD, and PSA detailed in Volume III, Part A, Report No. EERL 72-80. The units are, once again, the engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA, and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e.g., 432-1 represents a value of 43.2.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and, for all of the five damping values, the pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering at the California Institute of Technology.

Inclusion of Spectra of Upper Story Records. The earthquake response spectrum was originally introduced as a means of characterizing the response of structures to the exciting ground motion, and hence such spectra are usually calculated from ground motions themselves. There are many instances, however, in which a structural motion is the excitation, for example, of mechanical equipment or other objects attached at upper story locations in buildings. In such cases it may be useful to calculate a response spectrum based on an acceleration-time function which is in itself a response to the earthquake ground motion. Such response spectra of structural motions will ordinarily contain predominant peaks corresponding to structural frequencies and will consequently appear very different from ground spectra.

A number of accelerograms have been obtained from instruments located in upper floors of buildings, and it has been decided to include response spectra computed from these structural responses in the same form as the ground spectra. Such building spectra will be useful in estimating the response of equipment and contents to building motions excited by earthquakes. The reader is cautioned to keep this point in mind and to avoid such building spectra when studying the characteristics of the ground motion itself.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for his assistance

with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken with typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

M. D. Trifunac  
A. G. Brady  
D. E. Hudson  
Earthquake Engineering Research Laboratory  
California Institute of Technology



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# EARTHQUAKE DATA

The San Fernando, California, Earthquake of February 9, 1971, 0600 PST; epicenter,  $34^{\circ}24.0'N$ ,  $118^{\circ}23.7'W$ ; maximum intensity, XI; revised magnitude ( $M_L$ ), 6.4; depth, 13.0 km.

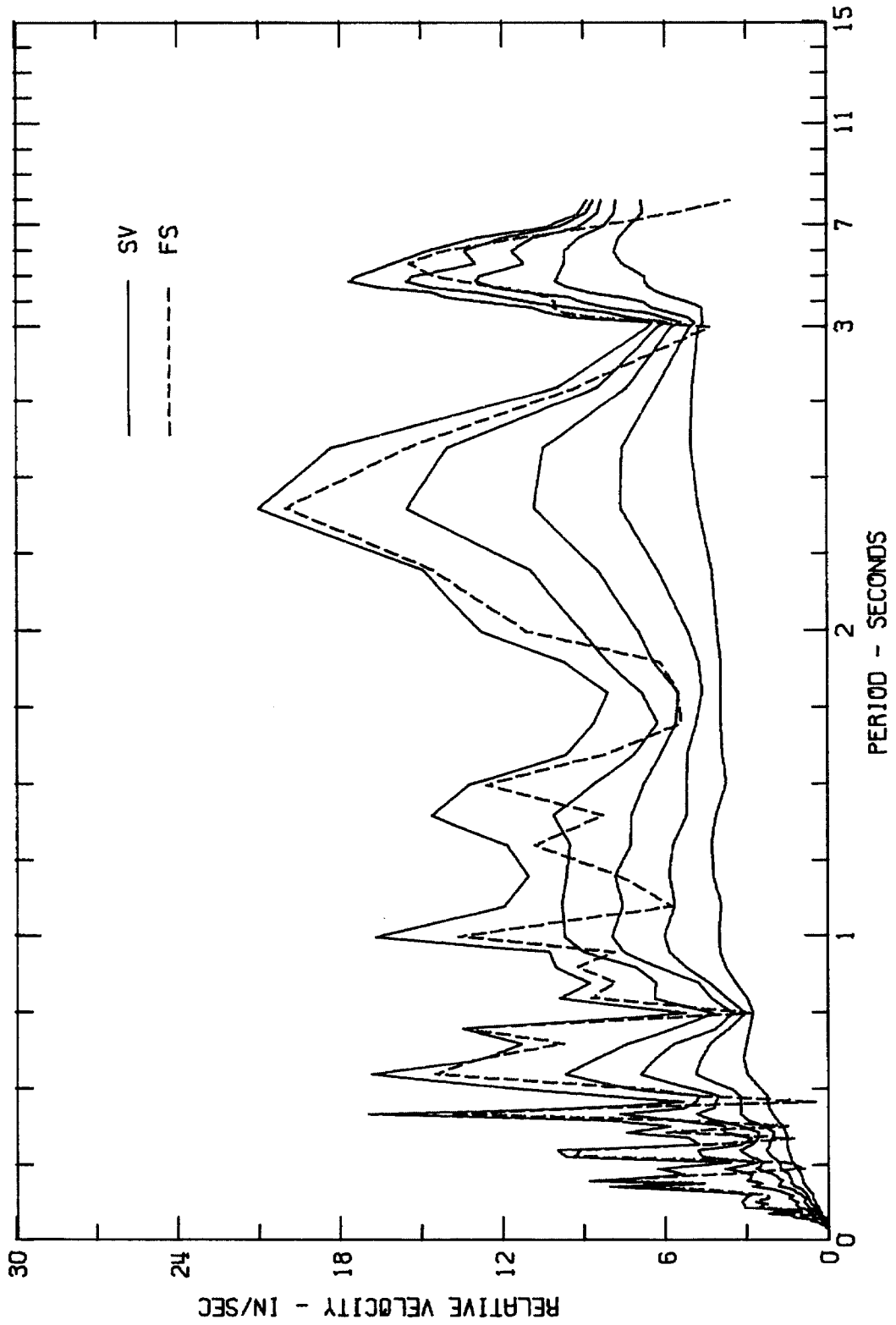
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111128 71.087.0 435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP NOOE  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

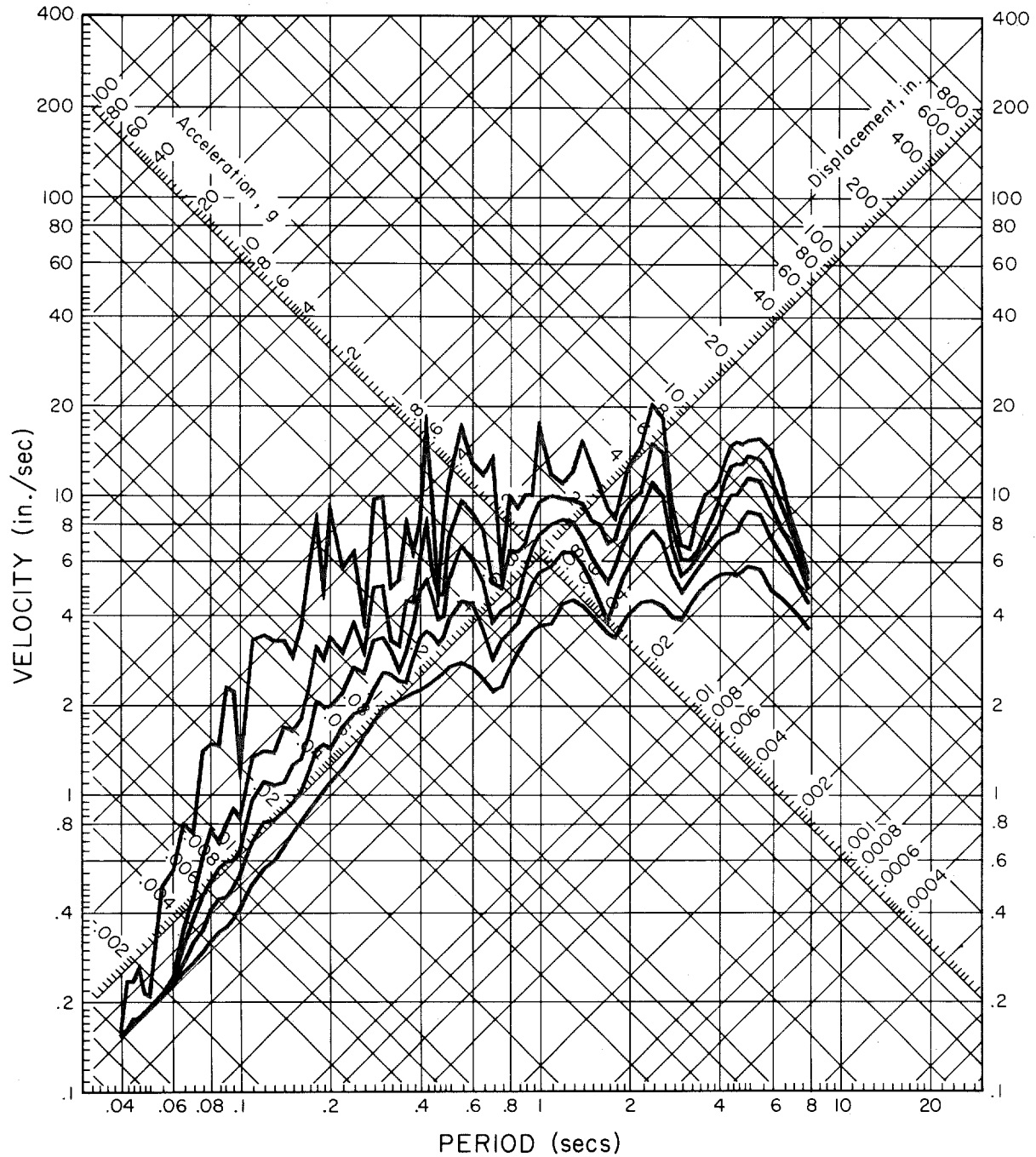


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII128 71.087.0 435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP NOOE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. CCMP NOOE

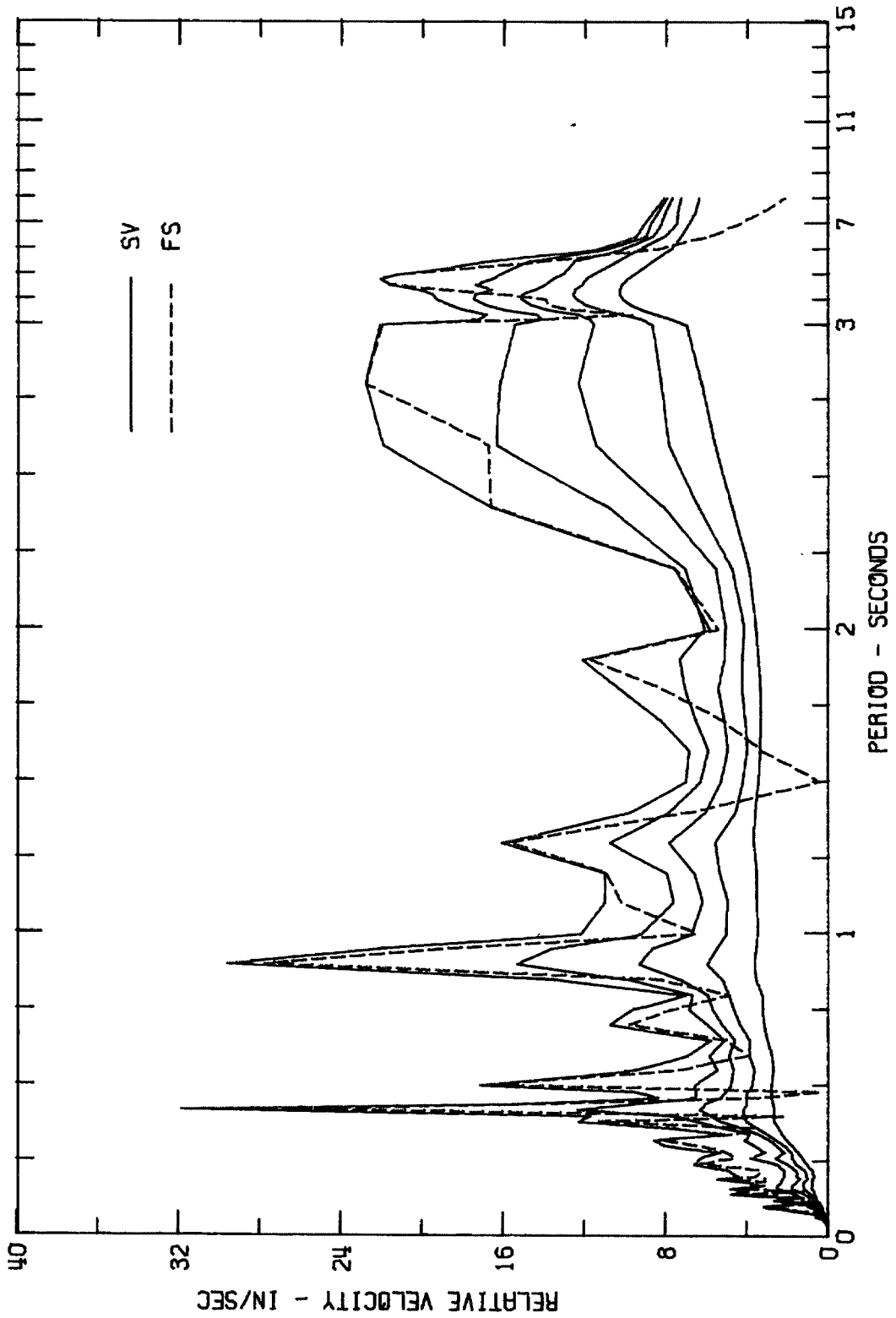
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SC AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	136-4	100-5	403-4	642-4	157-3	975-6	381-4	623-4	153-3	978-6	382-4	626-4	153-3	977-6	376-4	625-4	153-3
0.042	771-4	156-5	108-3	906-4	233-3	107-5	442-4	622-4	160-3	107-5	424-4	624-4	161-3	107-5	415-4	625-4	161-3
0.044	867-4	162-5	103-3	860-4	232-3	122-5	515-4	645-4	174-3	118-5	472-4	628-4	169-3	118-5	454-4	624-4	168-3
0.046	717-4	191-5	145-3	923-4	260-3	128-5	539-4	620-4	175-3	129-5	492-4	624-4	176-3	129-5	489-4	624-4	176-3
0.048	270-4	162-5	997-4	720-4	212-3	141-5	610-4	626-4	184-3	139-5	533-4	621-4	183-3	140-5	526-4	624-4	183-3
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0.400	589-2	528-3	817-2	338-3	830-2	397-3	560-2	253-3	624-2	309-3	429-2	198-3	486-2	215-3	297-2	138-3	338-2
0.420	139-1	115-2	170-1	669-3	172-1	546-3	773-2	317-3	818-2	352-3	488-2	206-3	527-2	237-3	326-2	140-3	355-2
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0.480	500-2	622-3	814-2	276-3	814-2	360-3	476-2	160-3	471-2	304-3	407-2	136-3	398-2	262-3	325-2	118-3	343-2
0.500	649-2	882-3	111-1	361-3	110-1	580-3	715-2	237-3	729-2	419-3	494-2	172-3	527-2	310-3	356-2	129-3	389-2
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0.700	135-1	150-2	135-1	314-3	135-1	573-3	570-2	119-3	515-2	424-3	412-2	887-4	380-2	319-3	363-2	683-4	286-2

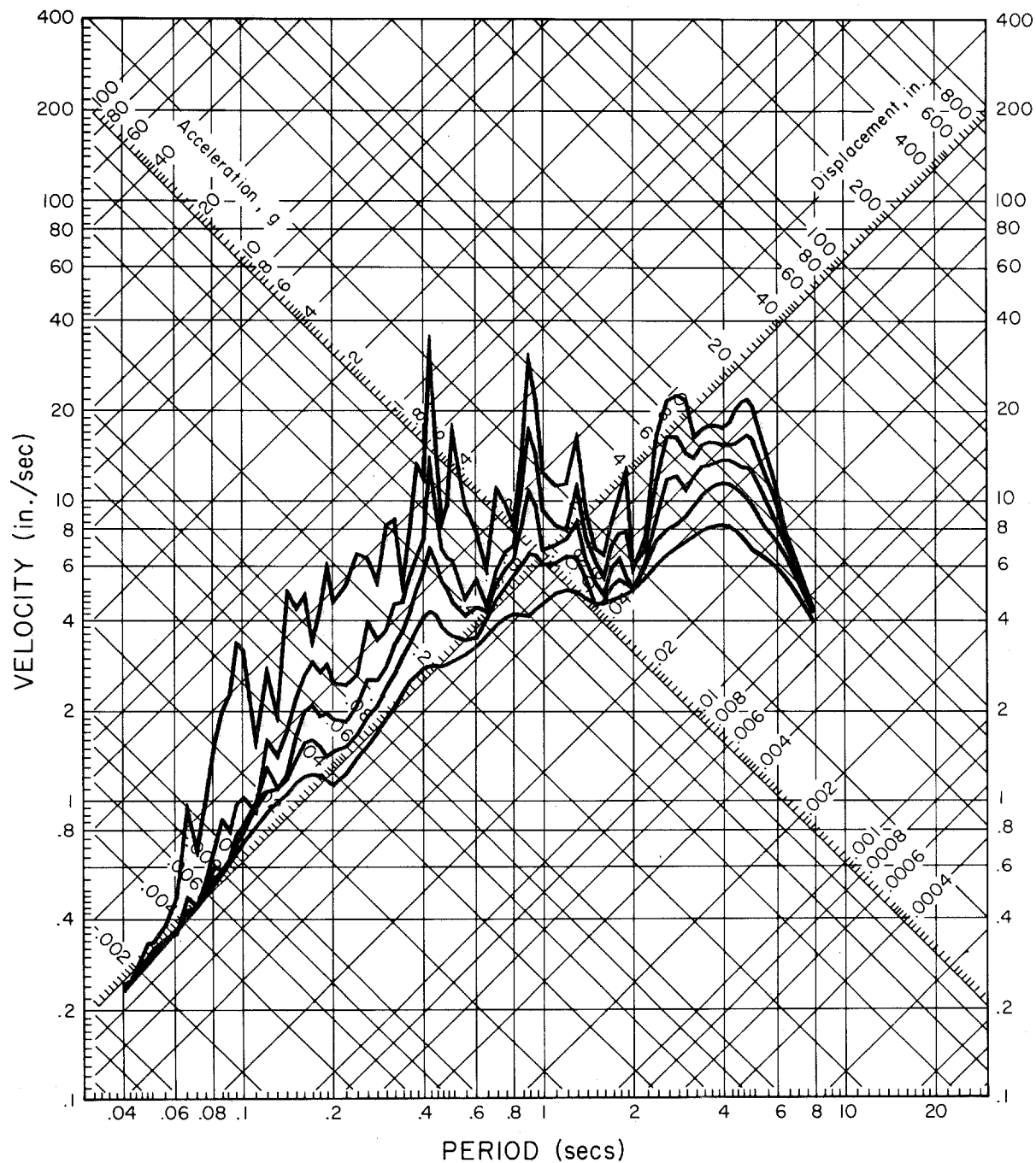


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0.80	876-2	127-2	994-2	203-3	10C-1	842-3	642-2	134-3	661-2	554-3	429-2	890-4	435-2	452-3	373-2	744-4	355-2	342-3	300-2	576-4	269-2
0.85	783-2	124-2	876-2	175-3	516-2	884-3	635-2	125-3	653-2	624-3	477-2	886-4	461-2	515-3	440-2	738-4	381-2	411-3	344-2	621-4	303-2
0.90	927-2	145-2	100-1	183-3	101-1	100-2	709-2	127-3	701-2	821-3	625-2	104-3	573-2	643-3	523-2	828-4	449-2	478-3	380-2	655-4	334-2
0.95	787-2	152-2	103-1	172-3	100-1	129-2	904-2	146-3	855-2	102-2	754-2	116-3	678-2	782-3	585-2	906-4	517-2	541-3	399-2	673-4	357-2
1.00	136-1	274-2	167-1	280-3	172-1	152-2	972-2	155-3	958-2	118-2	796-2	121-3	745-2	889-3	605-2	930-4	558-2	590-3	402-2	666-4	371-2
1.10	574-2	207-2	119-1	175-3	118-1	176-2	983-2	149-3	100-1	141-2	756-2	120-3	809-2	103-2	565-2	883-4	590-2	661-3	393-2	598-4	377-2
1.20	770-2	211-2	110-1	149-3	110-1	189-2	964-2	134-3	991-2	160-2	787-2	114-3	842-2	124-2	586-2	901-4	654-2	840-3	424-2	633-4	439-2
1.30	108-1	251-2	118-1	152-3	121-1	201-2	953-2	122-3	975-2	170-2	727-2	103-3	825-2	134-2	572-2	836-4	651-2	939-3	430-2	622-4	454-2
1.40	827-2	341-2	146-1	178-3	153-1	212-2	101-1	110-3	952-2	162-2	725-2	850-4	728-2	131-2	521-2	700-4	590-2	969-3	411-2	563-4	435-2
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1.70	540-2	246-2	863-2	871-4	910-2	189-2	629-2	670-4	699-2	140-2	558-2	497-4	517-2	104-2	484-2	376-4	385-2	951-3	397-2	370-4	351-2
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1.90	618-2	317-2	977-2	900-4	105-1	263-2	813-2	746-4	871-2	207-2	647-2	591-4	687-2	161-2	477-2	466-4	535-2	114-2	396-2	347-4	379-2
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2.40	200-1																				

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
IIII128 71.087.0 435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP S90W  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SA N FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP S90W

IIIIII28 71.087.0

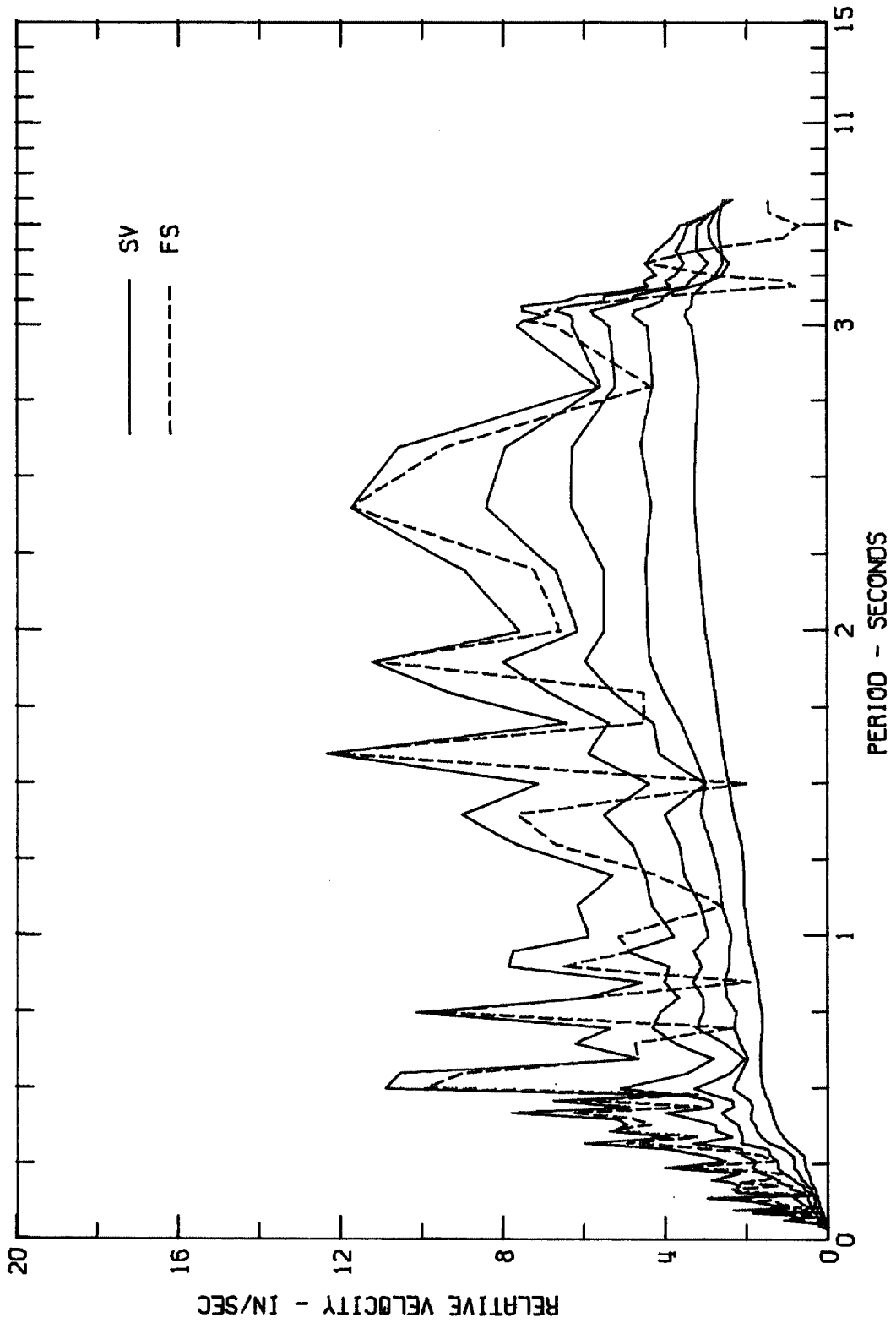
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	397-4	167-5	576-4	968-4	249-3	165-5	575-4	960-4	247-3	166-5	567-4	966-4	249-3	166-5	547-4	964-4	248-3
0.044	170-4	194-5	666-4	102-3	277-3	186-5	603-4	986-4	266-3	185-5	611-4	980-4	264-3	184-5	594-4	972-4	262-3
0.046	254-4	221-5	822-4	107-3	302-3	206-5	687-4	995-4	281-3	205-5	661-4	990-4	280-3	203-5	642-4	981-4	277-3
0.048	614-4	255-5	956-4	113-3	334-3	229-5	688-4	101-3	299-3	226-5	709-4	100-3	296-3	222-5	696-4	990-4	291-3
0.050	976-4	266-5	192-3	109-3	335-3	254-5	855-4	104-3	319-3	248-5	774-4	101-3	311-3	243-5	746-4	997-4	305-3
0.055	125-3	337-5	243-3	113-3	365-3	303-5	105-3	102-3	346-3	257-5	900-4	100-3	340-3	295-5	892-4	100-3	337-3
0.060	234-3	456-5	250-3	129-3	477-3	341-5	159-3	971-4	357-3	348-5	136-3	987-4	364-3	353-5	122-3	100-3	370-3
0.065	652-3	976-5	679-3	236-3	943-3	491-5	189-3	118-3	474-3	442-5	176-3	107-3	428-3	427-5	159-3	103-3	412-3
0.070	338-3	755-5	437-3	157-3	677-3	495-5	288-3	103-3	444-3	491-5	216-3	102-3	440-3	496-5	194-3	104-3	445-3
0.075	543-3	122-4	845-3	222-3	102-2	646-5	343-3	117-3	541-3	584-5	250-3	106-3	489-3	586-5	228-3	106-3	491-3
0.080	607-3	197-4	117-2	315-3	154-2	882-5	387-3	141-3	692-3	769-5	304-3	122-3	603-3	701-5	272-3	112-3	551-3
0.085	146-2	273-4	169-2	386-3	201-2	117-4	614-3	166-3	866-3	793-5	404-3	113-3	586-3	791-5	321-3	112-3	585-3
0.090	203-2	329-4	220-2	415-3	229-2	113-4	552-3	142-3	791-3	915-5	484-3	115-3	638-3	908-5	382-3	115-3	634-3
0.095	234-2	511-4	308-2	579-3	338-2	148-4	772-3	167-3	978-3	116-4	535-3	133-3	773-3	108-4	413-3	123-3	716-3
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0.110	401-3	276-4	143-2	233-3	157-2	160-4	759-3	134-3	914-3	174-4	627-3	146-3	994-3	165-4	556-3	140-3	947-3
0.120	263-2	522-4	269-2	371-3	273-2	305-4	133-2	216-3	159-2	246-4	988-3	174-3	129-2	205-4	734-3	147-3	107-2
0.130	133-2	400-4	178-2	242-3	193-2	292-4	124-2	177-3	141-2	227-4	937-3	139-3	109-2	227-4	783-3	139-3	109-2
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0.150	118-2	105-3	394-2	478-3	441-2	529-4	211-2	240-3	221-2	393-4	149-2	178-3	164-2	331-4	104-2	153-3	138-2
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0.180	311-2	123-3	405-2	389-3	430-2	774-4	233-2	245-3	270-2	552-4	158-2	175-3	193-2	436-4	120-2	140-3	152-2
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0.220	326-2	185-3	457-2	392-3	530-2	862-4	218-2	181-3	246-2	648-4	159-2	135-3	185-2	534-4	117-2	112-3	152-2
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0.260	458-2	268-3	624-2	405-3	647-2	164-3	387-2	246-3	396-2	106-3	260-2	162-3	257-2	798-4	179-2	121-3	192-2
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0.360	360-2	471-3	762-2	372-3	823-2	326-3	517-2	257-3	570-2	247-3	425-2	197-3	432-2	194-3	351-2	155-3	339-2
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0.400	221-2	758-3	117-1	484-3	119-1	479-3	758-2	305-3	752-2	375-3	576-2	241-3	589-2	263-3	423-2	170-3	430-2
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	484-2	106-2	702-2	170-3	835-2	911-3	667-2	145-3	719-2	118-3	593-2	131-3	642-2	723-3	489-2	118-3	568-2	539-3	326-2	941-4	423-2
0.85	842-2	192-2	135-1	272-3	142-1	148-2	937-2	210-3	109-1	112-2	728-2	159-3	829-2	833-3	521-2	120-3	616-2	568-3	356-2	885-4	420-2
0.90	278-1	428-2	296-1	541-3	299-1	247-2	153-1	312-3	172-1	154-2	932-2	196-3	108-1	958-3	596-2	122-3	669-2	597-3	366-2	793-4	417-2
0.95	187-1	329-2	219-1	373-3	218-1	217-2	136-1	246-3	144-1	145-2	864-2	165-3	961-2	100-2	550-2	114-3	661-2	666-3	353-2	792-4	441-2
1.00	647-2	197-2	121-1	202-3	124-1	147-2	917-2	151-3	927-2	109-2	671-2	112-3	689-2	982-3	502-2	101-3	617-2	730-3	344-2	772-4	458-2
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2.80	228-1	101-1	228-1	132-3	228-1	732-2	161-1	956-4	164-1	543-2	123-1	712-4	121-1	375-2	824-2	500-4	842-2	313-2	626-2	442-4	702-2
3.00	219-1	104-1	220-1	119-3	219-1	693-2	154-1	788-4	145-1	520-2	115-1	594-4	108-1	428-2	870-2	497-4	896-2	350-2	702-2	433-4	734-2
3.20	143-1	844-2	171-1	843-4	165-1	714-2	140-1	714-4	140-1	620-2	117-1	623-4	121-1	495-2	921-2	508-4	972-2	391-2	781-2	424-4	768-2
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3.60	128-1	103-1	180-1	814-4	180-1	908-2	160-1	717-4	158-1	757-2	139-1	601-4	132-1	631-2	112-1	508-4	110-1	471-2	926-2	398-4	822-2
3.80	138-1	108-1	187-1	771-4	180-1	954-2	169-1	676-4	157-1	819-2	146-1	583-4	135-1	687-2	119-1	496-4	113-1	504-2	979-2	386-4	833-2
4.00	139-1	112-1	193-1	720-4	177-1	987-2	174-1	632-4	155-1	879-2	151-1	565-4	138-1	733-2	124-1	478-4	115-1	532-2	101-1	370-4	836-2
4.20	160-1	123-1	194-1	716-4	184-1	103-1	174-1	602-4	156-1	920-2	151-1	537-4	137-1	764-2	126-1	455-4	114-1	552-2	102-1	347-4	826-2
4.40	193-1	143-1	202-1	756-4	204-1	109-1	165-1	580-4	161-1	944-2	144-1	501-4	134-1	780-2	124-1	424-4	111-1	561-2	103-1	328-4	802-2
4.60	216-1	158-1	216-1	765-4	216-1	119-1	174-1	575-4	162-1	956-2	139-1	464-4	130-1	784-2	121-1	388-4	107-1	562-2	101-1	306-4	768-2
4.80	221-1	168-1	220-1	749-4	220-1	127-1	165-1	566-4	166-1	994-2	135-1	444-4	130-1	784-2	119-1	354-4	102-1	558-2	989-2	281-4	730-2
5.00	208-1	165-1	210-1	677-4	208-1	128-1	161-1	526-4	161-1	100-1	130-1	414-4	126-1	775-2	115-1	325-4	973-2	552-2	952-2	255-4	694-2
5.50	140-1	132-1	167-1	449-4	151-1	110-1	147-1	372-4	125-1	910-2	125-1	310-4	104-1	720-2	103-1	254-4	822-2	570-2	867-2	195-4	651-2
6.00	843-2	107-1	114-1	305-4	112-1	955-2	169-1	273-4	100-1	817-2	101-1	233-4	856-2	713-2	929-2	213-4	747-2	583-2	773-2	195-4	610-2
6.50	579-2	813-2	943-2	196-4	786-2	782-2	895-2	189-4	756-2	740-2	857-2	181-4	715-2	677-2	801-2	175-4	655-2	574-2	721-2	171-4	555-2
7.00	432-2	714-2	906-2	149-4	641-2	697-2	872-2	145-4	626-2	672-2	822-2	142-4	603-2	631-2	744-2	143-4	566-2	552-2	685-2	148-4	498-2
7.50	311-2	628-2	856-2	114-4	526-2	621-2	833-2	113-4	520-2	609-2	796-2	113-4	510-2	584-2	737-2	117-4	489-2	535-2	650-2	128-4	446-2
8.00	212-2	563-2	809-2	899-5	442-2	561-2	933-2	901-5	441-2	557-2	767-2	911-5	437-2	544-2	722-2	974-5	427-2	550-2	632-2	112-4	400-2

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111128 71.087.0 435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

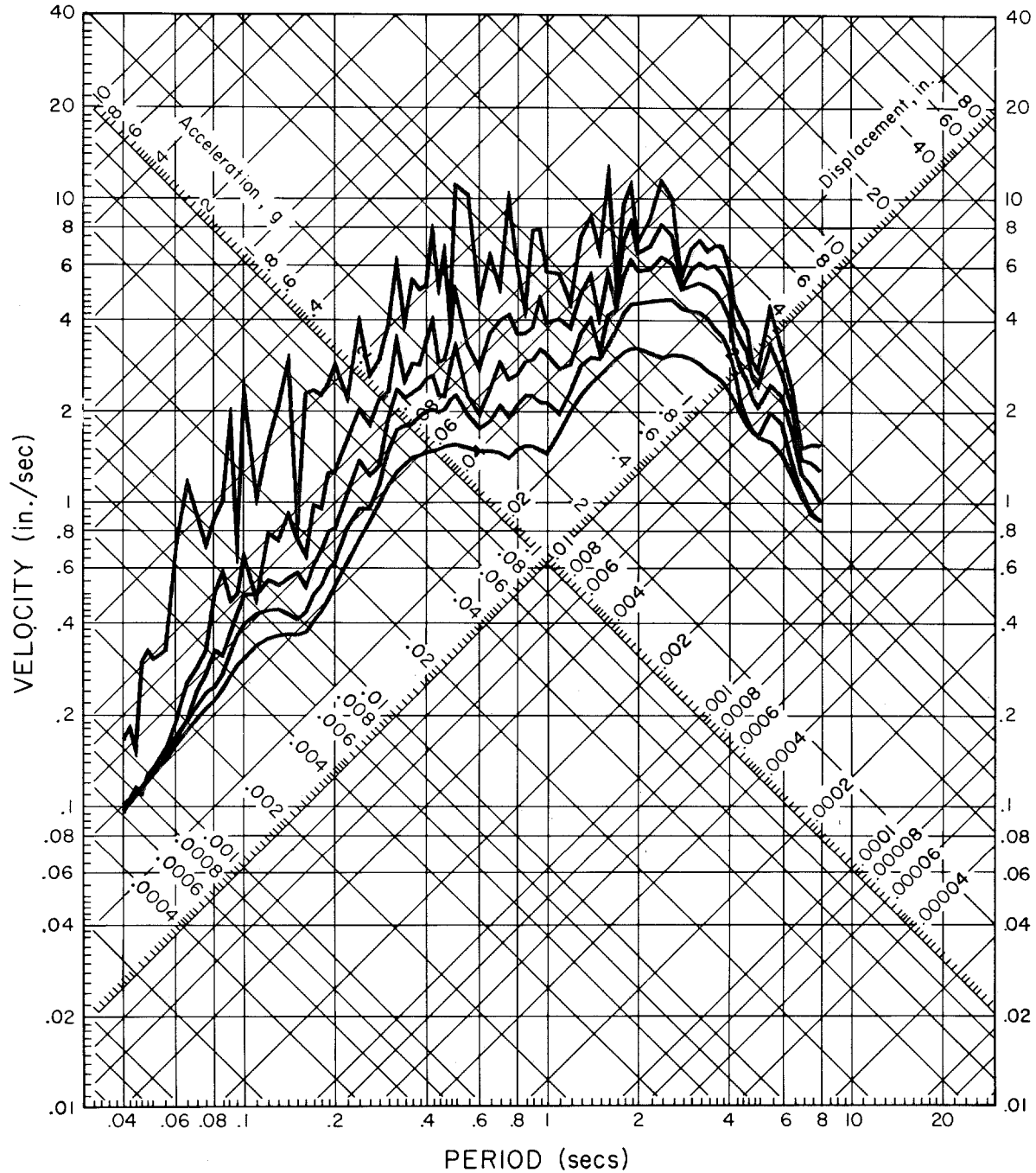


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII128 71.087.0 435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE    FEB 9, 1971 - 0600 PST  
 III1128 71.087.0    435 NORTH OAKHURST AVENUE, BASEMENT, BEVERLY HILLS, CAL.    COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD
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0.042	930-4	123-5	137-3	715-4	184-3	717-6	440-4	415-4	107-3	706-6	373-4	409-4	105-3	701-6
0.044	187-4	108-5	879-4	571-4	154-3	818-6	523-4	433-4	116-3	877-6	403-4	416-4	112-3	778-6
0.046	192-4	223-5	241-3	108-3	305-3	812-6	606-4	392-4	110-3	851-6	450-4	411-4	116-3	859-6
0.048	177-3	252-5	255-3	111-3	330-3	982-6	660-4	436-4	128-3	958-6	482-4	425-4	125-3	952-6
0.050	206-3	245-5	225-3	100-3	308-3	106-5	578-4	437-4	134-3	106-5	447-4	436-4	134-3	105-5
0.055	241-3	290-5	250-3	980-4	331-3	133-5	876-4	453-4	153-3	137-5	658-4	464-4	156-3	133-5
0.060	404-3	722-5	683-3	205-3	756-3	187-5	165-3	532-4	195-3	165-5	114-3	471-4	173-3	163-5
0.065	869-3	122-4	110-2	297-3	118-2	269-5	221-3	650-4	260-3	202-5	134-3	490-4	195-3	199-5
0.070	854-3	101-4	863-3	212-3	913-3	325-5	169-3	678-4	292-3	271-5	141-3	570-4	244-3	241-5
0.075	352-3	870-5	677-3	158-3	729-3	397-5	287-3	720-4	333-3	332-5	214-3	609-4	278-3	286-5
0.080	533-3	115-4	873-3	185-3	910-3	650-5	494-3	104-3	510-3	420-5	307-3	675-4	330-3	320-5
0.085	456-3	139-4	924-3	197-3	103-2	810-5	543-3	114-3	598-3	431-5	293-3	618-4	318-3	375-5
0.090	181-2	273-4	187-2	345-3	191-2	684-5	438-3	867-4	477-3	541-5	306-3	680-4	378-3	465-5
0.095	492-3	110-4	695-3	125-3	732-3	770-5	476-3	869-4	509-3	669-5	343-3	753-4	442-3	559-5
0.100	191-2	383-4	237-2	392-3	240-2	107-4	679-3	110-3	676-3	799-5	410-3	820-4	502-3	640-5
0.110	670-3	182-4	967-3	154-3	104-2	843-5	417-3	713-4	481-3	882-5	352-3	754-4	504-3	761-5
0.120	118-2	305-4	149-2	216-3	159-2	152-4	663-3	108-3	800-3	107-4	457-3	753-4	560-3	853-5
0.130	131-2	439-4	190-2	265-3	212-2	257-4	701-3	948-3	761-3	111-4	483-3	672-4	540-3	931-5
0.140	296-2	668-4	299-2	349-3	300-2	207-4	848-3	108-3	932-3	127-4	501-3	664-4	570-3	969-5
0.150	355-3	204-4	733-3	928-4	855-3	182-4	644-3	832-4	763-3	142-4	492-3	647-4	595-3	998-5
0.160	217-2	595-4	229-2	237-3	233-2	170-4	589-3	685-4	671-3	135-4	478-3	545-4	532-3	112-4
0.170	225-2	650-4	236-2	230-3	240-2	278-4	942-3	958-4	999-3	171-4	591-3	604-4	634-3	136-4
0.180	125-2	663-4	217-2	209-3	231-2	270-4	914-3	880-4	972-3	201-4	636-3	640-4	704-3	155-4
0.190	224-2	766-4	245-2	217-3	253-2	386-4	124-2	109-3	127-2	247-4	811-3	703-4	817-3	184-4
0.200	155-2	932-4	289-2	238-3	292-2	412-4	121-2	105-3	129-2	266-4	837-3	694-4	836-3	206-4
0.220	114-2	786-4	217-2	166-3	224-2	582-4	167-2	122-3	166-2	385-4	110-2	833-4	110-2	296-4
0.240	368-2	155-3	404-2	275-3	406-2	792-4	187-2	140-3	207-2	536-4	124-2	959-4	140-2	370-4
0.260	126-2	111-3	251-2	167-3	268-2	760-4	178-2	116-3	183-2	518-4	124-2	782-4	125-2	401-4
0.280	165-2	135-3	309-2	177-3	304-2	998-4	211-2	130-3	224-2	603-4	142-2	782-4	135-2	524-4
0.300	295-2	189-3	392-2	215-3	396-2	113-3	215-2	129-3	238-2	931-4	148-2	105-3	195-2	727-4
0.320	496-2	320-3	603-2	320-3	629-2	180-3	335-2	179-3	354-2	122-3	215-2	124-3	241-2	903-4
0.340	321-2	214-3	391-2	189-3	396-2	139-3	235-2	123-3	257-2	122-3	210-2	107-3	225-2	991-4
0.360	539-2	316-3	535-2	249-3	552-2	168-3	276-2	133-3	294-2	135-3	216-2	106-3	236-2	106-3
0.380	436-2	311-3	494-2	220-3	515-2	176-3	278-2	125-3	291-2	148-3	222-2	105-3	244-2	119-3
0.400	481-2	339-3	521-2	217-3	533-2	221-3	335-2	141-3	347-2	167-3	244-2	108-3	262-2	130-3
0.420	628-2	533-3	783-2	309-3	757-2	274-3	402-2	159-3	410-2	179-3	262-2	105-3	268-2	138-3
0.440	313-2	364-3	489-2	192-3	520-2	207-3	285-2	109-3	296-2	161-3	233-2	853-4	231-2	142-3
0.460	610-2	502-3	678-2	242-3	686-2	223-3	289-2	108-3	304-2	168-3	237-2	813-4	230-2	152-3
0.480	320-2	311-3	401-2	138-3	407-2	277-3	359-2	123-3	362-2	170-3	287-2	976-4	284-2	170-3
0.500	996-2	907-3	109-1	371-3	114-1	408-3	514-2	167-3	512-2	268-3	329-2	110-3	337-2	184-3
0.550	897-2	926-3	105-1	213-3	105-1	294-3	345-2	994-4	336-2	200-3	240-2	677-4	228-2	173-3
0.600	467-2	446-3	465-2	126-3	467-2	269-3	281-2	765-4	282-2	189-3	205-2	539-4	158-2	171-3
0.650	475-2	689-3	625-2	166-3	666-2	384-3	377-2	929-4	371-2	251-3	254-2	613-4	243-2	196-3
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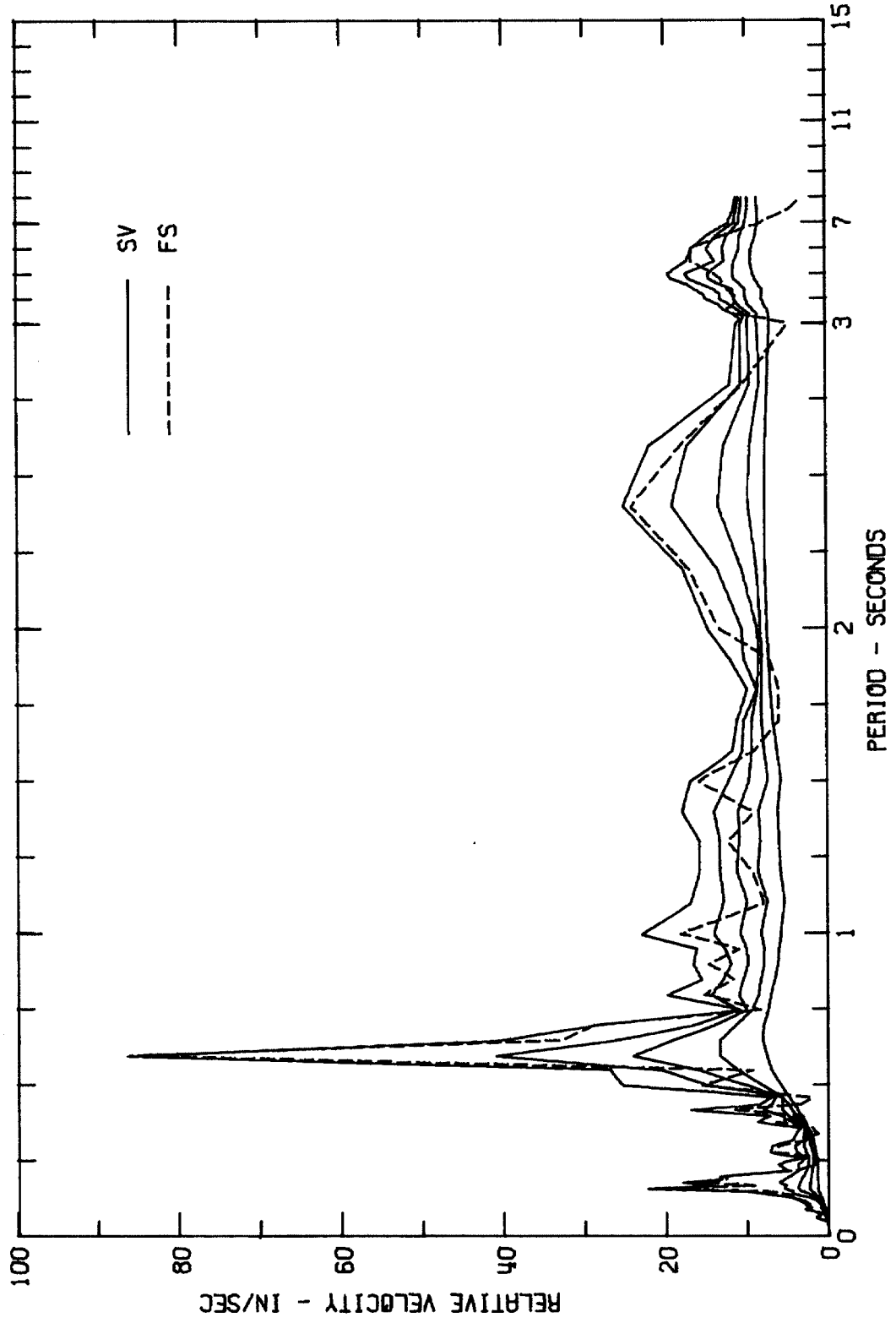




# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP NOOE  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

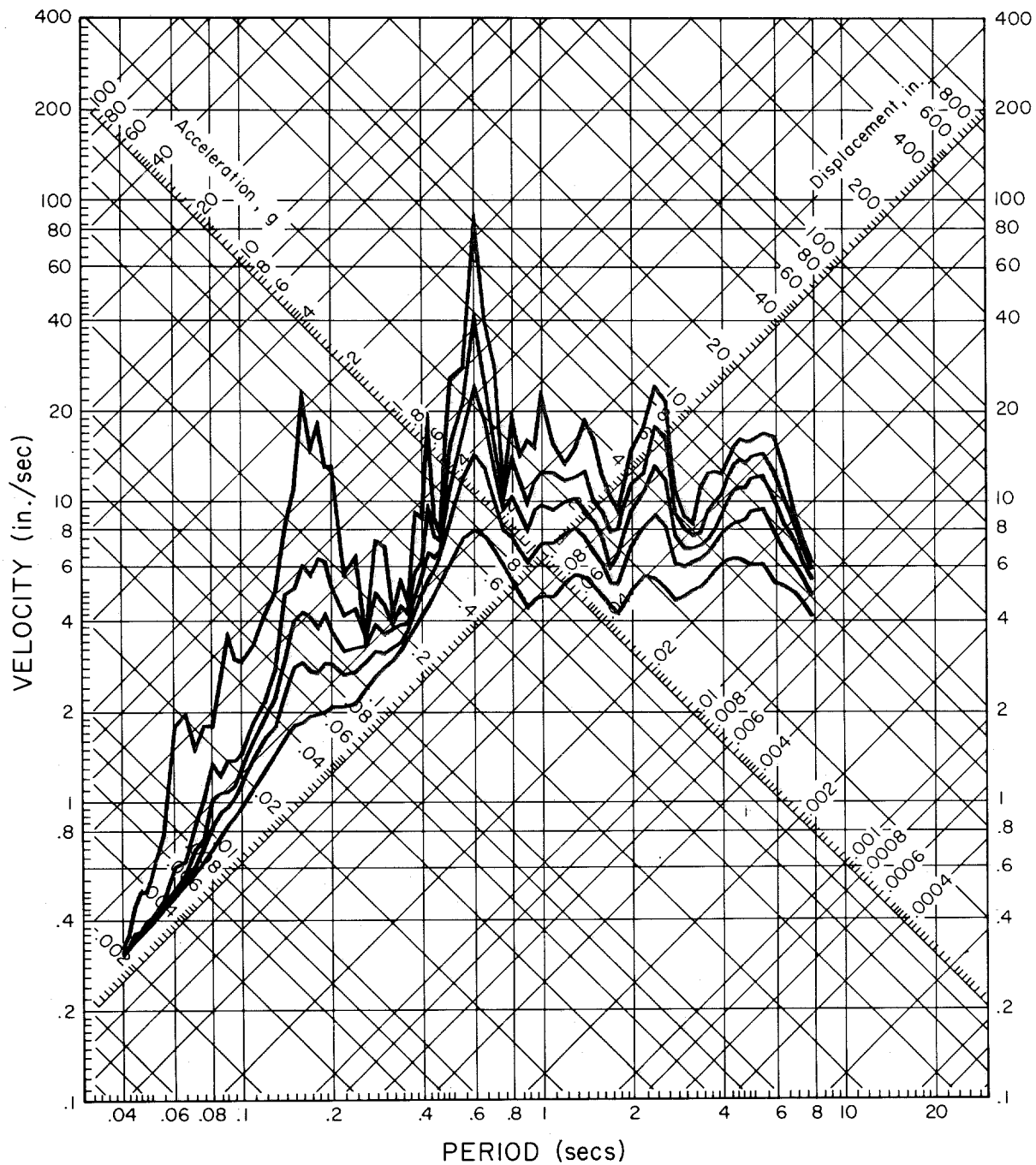


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP NODE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII1129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP NOOE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
O.040	174-4	206-5	126-3	132-3	324-3	200-5	859-4	128-3	314-3	198-5	730-4	126-3	311-3	196-5	635-4	125-3	308-3
O.042	101-4	239-5	149-3	138-3	358-3	220-5	945-4	127-3	329-3	219-5	771-4	127-3	328-3	218-5	712-4	126-3	326-3
O.044	186-3	314-5	206-3	166-3	449-3	253-5	100-3	133-3	361-3	245-5	862-4	129-3	349-3	240-5	791-4	127-3	343-3
O.046	575-4	364-5	242-3	176-3	498-3	267-5	820-4	129-3	365-3	265-5	867-4	128-3	363-3	263-5	868-4	127-3	359-3
O.048	151-3	380-5	254-3	168-3	458-3	303-5	951-4	134-3	397-3	294-5	949-4	130-3	385-3	289-5	955-4	128-3	378-3
O.050	139-3	444-5	299-3	181-3	558-3	325-5	106-3	132-3	408-3	323-5	101-3	132-3	406-3	318-5	106-3	130-3	400-3
O.055	356-3	686-5	561-3	232-3	784-3	410-5	213-3	138-3	469-3	398-5	178-3	135-3	454-3	391-5	156-3	132-3	447-3
O.060	153-2	172-4	152-2	489-3	180-2	577-5	258-3	164-3	605-3	486-5	234-3	138-3	509-3	474-5	208-3	134-3	496-3
O.065	130-2	204-4	163-2	495-3	197-2	649-5	407-3	157-3	627-3	589-5	317-3	142-3	569-3	570-5	273-3	138-3	551-3
O.070	119-2	168-4	123-2	350-3	150-2	931-5	546-3	193-3	836-3	772-5	415-3	160-3	693-3	681-5	341-3	141-3	611-3
O.075	131-2	215-4	139-2	391-3	180-2	123-4	729-3	225-3	103-2	909-5	481-3	164-3	761-3	847-5	410-3	154-3	709-3
O.080	862-3	229-4	146-2	366-3	180-2	171-4	948-3	273-3	134-2	130-4	648-3	209-3	102-2	105-4	479-3	172-3	832-3
O.085	151-2	346-4	216-2	490-3	256-2	165-4	146-3	235-3	122-2	145-4	616-3	207-3	107-2	124-4	511-3	177-3	922-3
O.090	298-2	514-4	308-2	649-3	359-2	198-4	991-3	250-3	138-2	155-4	673-3	196-3	108-2	138-4	572-3	175-3	966-3
O.095	266-2	454-4	267-2	514-3	300-2	209-4	100-2	238-3	138-2	172-4	732-3	194-3	113-2	157-4	648-3	179-3	104-2
O.100	191-2	467-4	274-2	478-3	293-2	231-4	980-3	236-3	145-2	207-4	843-3	212-3	130-2	183-4	733-3	191-3	115-2
O.110	268-2	592-4	295-2	500-3	338-2	328-4	129-2	277-3	187-2	284-4	109-2	240-3	162-2	248-4	948-3	210-3	141-2
O.120	304-2	813-4	374-2	578-2	426-2	418-4	164-2	296-3	219-2	368-4	133-2	260-3	192-2	314-4	111-2	223-3	164-2
O.130	461-2	104-3	489-2	632-3	505-2	575-4	250-2	349-3	278-2	464-4	179-2	283-3	224-2	372-4	129-2	231-3	180-2
O.140	471-2	184-3	777-2	960-3	826-2	109-3	455-2	570-3	493-2	666-4	252-2	345-3	299-2	510-4	173-2	271-3	229-2
O.150	798-2	264-3	105-1	120-2	110-1	123-3	457-2	559-3	516-2	959-4	353-2	441-3	401-2	674-4	229-2	311-3	282-2
O.160	224-1	573-3	224-1	229-2	225-1	156-3	556-2	622-3	614-2	109-3	382-2	439-3	429-2	745-4	248-2	299-3	292-2
O.170	917-2	407-3	143-1	144-2	150-1	153-3	535-2	547-3	567-2	111-3	371-2	393-3	412-2	741-4	239-2	268-3	273-2
O.180	155-1	523-3	181-1	165-2	182-1	184-3	610-2	586-3	645-2	109-3	353-2	345-3	380-2	776-4	223-2	249-3	271-2
O.190	125-1	396-3	131-1	112-2	130-1	190-3	534-2	542-3	631-2	127-3	339-2	360-3	421-2	877-4	229-2	249-3	290-2
O.200	128-1	419-3	134-1	107-2	131-1	165-3	485-2	427-3	520-2	118-3	314-2	307-3	371-2	920-4	215-2	239-3	289-2
O.220	401-2	201-3	517-2	425-3	574-2	146-3	364-2	308-3	419-2	111-3	278-2	238-3	319-2	933-4	209-2	198-3	266-2
O.240	150-2	250-3	626-2	445-3	656-2	167-3	381-2	297-3	439-2	125-3	258-2	220-3	327-2	104-3	199-2	189-3	272-2
O.260	131-2	146-3	337-2	221-3	353-2	146-3	284-2	222-3	355-2	137-3	245-2	210-3	332-2	121-3	191-2	186-3	293-2
O.280	681-2	331-3	732-2	432-3	144-2	220-3	403-2	288-3	494-2	173-3	284-2	225-3	390-2	142-3	206-2	186-3	319-2
O.300	615-2	338-3	690-2	385-3	709-2	216-3	424-2	245-3	453-2	173-3	318-2	198-3	363-2	150-3	236-2	174-3	314-2
O.320	283-2	216-3	443-2	216-3	424-2	200-3	312-2	200-3	392-2	192-3	291-2	192-3	378-2	167-3	243-2	168-3	329-2
O.340	132-2	295-3	403-2	261-3	546-2	243-3	313-2	214-3	449-2	211-3	266-2	189-3	391-2	185-3	238-2	167-3	343-2
O.360	196-2	264-3	358-2	208-3	461-2	241-3	294-2	190-3	421-2	226-3	290-2	210-3	489-2	263-3	336-2	188-3	435-2
O.380	656-2	558-3	889-2	395-3	923-2	356-3	465-2	252-3	588-2	295-3	384-2	210-3	572-2	317-3	399-2	206-3	498-2
O.400	305-2	562-3	724-2	359-3	883-2	404-3	581-2	258-3	636-2	364-3	493-2	234-3	572-2	317-3	399-2	206-3	498-2
O.420	117-1	120-2	171-1	700-3	180-1	632-3	813-2	368-3	946-2	451-3	574-2	263-3	675-2	369-3	463-2	217-3	552-2
O.440	348-2	616-3	838-2	325-3	880-2	535-3	702-2	283-3	765-2	457-3	574-2	243-3	653-2	419-3	508-2	224-3	599-2
O.460	203-2	578-3	718-2	279-3	789-2	544-3	651-2	262-3	744-2	507-3	560-2	247-3	693-2	486-3	577-2	237-3	664-2
O.480	863-2	123-2	143-1	548-3	161-1	836-3	528-2	372-3	109-1	701-3	791-2	311-3	917-2	587-3	685-2	264-3	769-2
O.500	156-1	207-2	254-1	848-3	260-1	125-2	147-1	512-3	157-1	900-3	101-1	368-3	113-1	702-3	812-2	291-3	883-2
O.550	925-2	248-2	269-1	841-3	284-1	189-2	205-1	641-3	216-1	150-2	159-1	510-3	171-1	106-2	112-1	363-3	121-1
O.600	864-1	824-2	864-1	234-2	863-1	393-2	411-1	111-2	411-1	231-2	241-1	659-3	242-1	138-2	134-1	400-3	144-1
O.650	329-1	414-2	405-1	100-2	400-1	258-2	262-1	626-3	250-1	193-2	192-1	472-3	187-1	133-2	133-1	330-3	129-1
O.700	287-1	320-2	287-1	668-3	287-1	171-2	164-1	358-3	154-1	141-2	139-1	296-3	126-1	111-2	113-1	238-3	100-1

IIII129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOR, BEVERLY HILLS, CAL. COMP NOOE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	829-2	132-2	107-1	241-3	111-1	123-2	111-1	225-3	103-1	113-2	100-1	207-3	947-2	956-3	930-2	178-3	801-2
0.80	153-1	242-2	199-1	388-3	190-1	178-2	144-1	286-3	140-1	132-2	110-1	214-3	104-1	970-3	856-2	159-3	761-2
0.85	115-1	194-2	155-1	275-3	143-1	158-2	129-1	224-3	116-1	122-2	104-1	175-3	909-2	928-3	821-2	135-3	686-2
0.90	147-1	231-2	166-1	292-3	161-1	141-2	119-1	179-3	990-2	115-2	980-2	146-3	803-2	901-3	783-2	115-3	629-2
0.95	109-1	231-2	161-1	261-3	152-1	177-2	127-1	202-3	117-1	142-2	100-1	162-3	939-2	102-2	786-2	119-3	679-2
1.00	182-1	362-2	230-1	370-3	227-1	200-2	140-1	205-3	126-1	155-2	108-1	159-3	975-2	115-2	826-2	121-3	727-2
1.10	781-2	273-2	168-1	231-3	156-1	219-2	128-1	186-3	125-1	165-2	990-2	140-3	942-2	128-2	745-2	110-3	732-2
1.20	932-2	257-2	157-1	182-3	134-1	225-2	133-1	160-3	118-1	192-2	112-1	137-3	100-1	149-2	864-2	108-3	781-2
1.30	123-1	316-2	157-1	191-3	152-1	251-2	133-1	152-3	121-1	213-2	108-1	130-3	103-1	169-2	822-2	105-3	817-2
1.40	910-2	417-2	179-1	218-3	187-1	282-2	140-1	147-3	126-1	207-2	110-1	108-3	931-2	168-2	859-2	906-4	757-2
1.50	159-1	384-2	168-1	174-3	161-1	238-2	121-1	108-3	999-2	205-2	966-2	941-4	859-2	161-2	730-2	764-4	676-2
1.60	901-2	310-2	116-1	124-3	122-1	235-2	104-1	942-4	925-2	191-2	926-2	774-4	751-2	173-2	783-2	662-4	619-2
1.70	599-2	282-2	110-1	999-4	104-1	215-2	102-1	762-4	796-2	163-2	926-2	587-4	604-2	145-2	815-2	546-4	536-2
1.80	595-2	266-2	985-2	841-4	930-2	232-2	863-2	733-4	810-2	191-2	850-2	604-4	667-2	152-2	807-2	493-4	533-2
1.90	710-2	358-2	120-1	101-3	118-1	302-2	103-1	856-4	999-2	244-2	848-2	694-4	807-2	189-2	804-2	543-4	625-2
2.00	132-1	475-2	147-1	121-3	149-1	366-2	105-1	938-4	115-1	299-2	861-2	769-4	939-2	227-2	824-2	596-4	714-2
2.20	171-1	625-2	179-1	132-3	178-1	440-2	136-1	931-4	125-1	380-2	106-1	807-4	108-1	289-2	876-2	625-4	825-2
2.40	241-1	927-2	251-1	164-3	242-1	684-2	191-1	121-3	179-1	505-2	134-1	901-4	132-1	346-2	974-2	624-4	907-2
2.60	180-1	899-2	218-1	136-3	217-1	686-2	171-1	103-3	165-1	488-2	126-1	744-4	118-1	341-2	944-2	530-4	825-2
2.80	102-1	487-2	118-1	636-4	109-1	406-2	105-1	531-4	913-2	341-2	944-2	446-4	765-2	278-2	823-2	371-4	624-2
3.00	473-2	426-2	110-1	484-4	893-2	387-2	105-1	441-4	811-2	334-2	972-2	386-4	701-2	292-2	858-2	345-4	612-2
3.20	733-2	430-2	106-1	429-4	844-2	394-2	102-1	394-4	773-2	358-2	961-2	362-4	703-2	322-2	863-2	338-4	633-2
3.40	112-1	608-2	114-1	538-4	112-1	427-2	100-1	378-4	789-2	389-2	935-2	349-4	719-2	350-2	847-2	327-4	648-2
3.60	122-1	717-2	127-1	566-4	125-1	538-2	110-1	425-4	940-2	431-2	102-1	341-4	752-2	389-2	904-2	316-4	680-2
3.80	113-1	767-2	132-1	543-4	126-1	611-2	119-1	433-4	101-1	494-2	109-1	353-4	817-2	449-2	963-2	323-4	735-2
4.00	108-1	794-2	148-1	507-4	124-1	680-2	131-1	435-4	106-1	579-2	113-1	373-4	910-2	499-2	996-2	330-4	784-2
4.20	114-1	930-2	151-1	539-4	139-1	819-2	130-1	475-4	122-1	683-2	115-1	398-4	102-1	551-2	100-1	334-4	824-2
4.40	121-1	108-1	162-1	570-4	154-1	939-2	138-1	496-4	134-1	769-2	115-1	408-4	109-1	596-2	991-2	332-4	851-2
4.60	125-1	119-1	171-1	576-4	163-1	102-1	153-1	495-4	139-1	821-2	132-1	400-4	112-1	631-2	105-1	324-4	863-2
4.80	129-1	122-1	191-1	543-4	160-1	103-1	169-1	459-4	135-1	854-2	144-1	382-4	111-1	669-2	113-1	311-4	876-2
5.00	137-1	127-1	195-1	522-4	160-1	113-1	173-1	464-4	142-1	957-2	146-1	394-4	120-1	743-2	115-1	311-4	934-2
5.50	167-1	149-1	171-1	504-4	170-1	128-1	136-1	433-4	146-1	107-1	125-1	367-4	123-1	831-2	112-1	293-4	950-2
6.00	165-1	158-1	165-1	449-4	165-1	119-1	147-1	340-4	125-1	973-2	127-1	277-4	101-1	758-2	106-1	227-4	794-2
6.50	127-1	132-1	146-1	319-4	127-1	105-1	135-1	255-4	102-1	866-2	121-1	211-4	837-2	704-2	105-1	181-4	680-2
7.00	813-2	103-1	120-1	215-4	925-2	942-2	113-1	197-4	846-2	828-2	107-1	174-4	743-2	690-2	990-2	158-4	619-2
7.50	468-2	885-2	113-1	160-4	741-2	823-2	109-1	150-4	690-2	743-2	104-1	137-4	622-2	660-2	967-2	135-4	553-2
8.00	305-2	799-2	110-1	127-4	627-2	759-2	107-1	122-4	596-2	704-2	103-1	114-4	553-2	622-2	966-2	113-4	488-2

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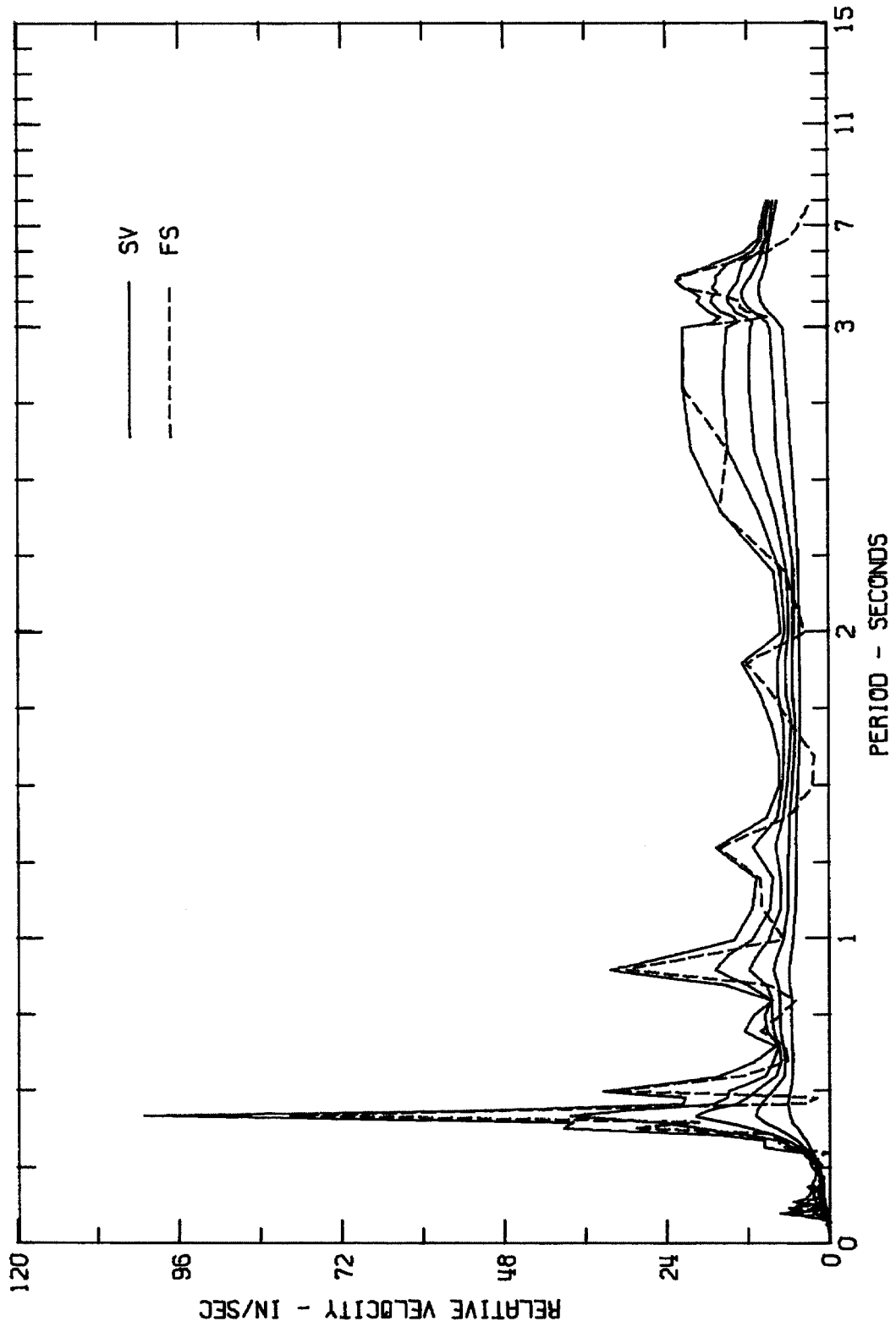
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# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP S90W  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

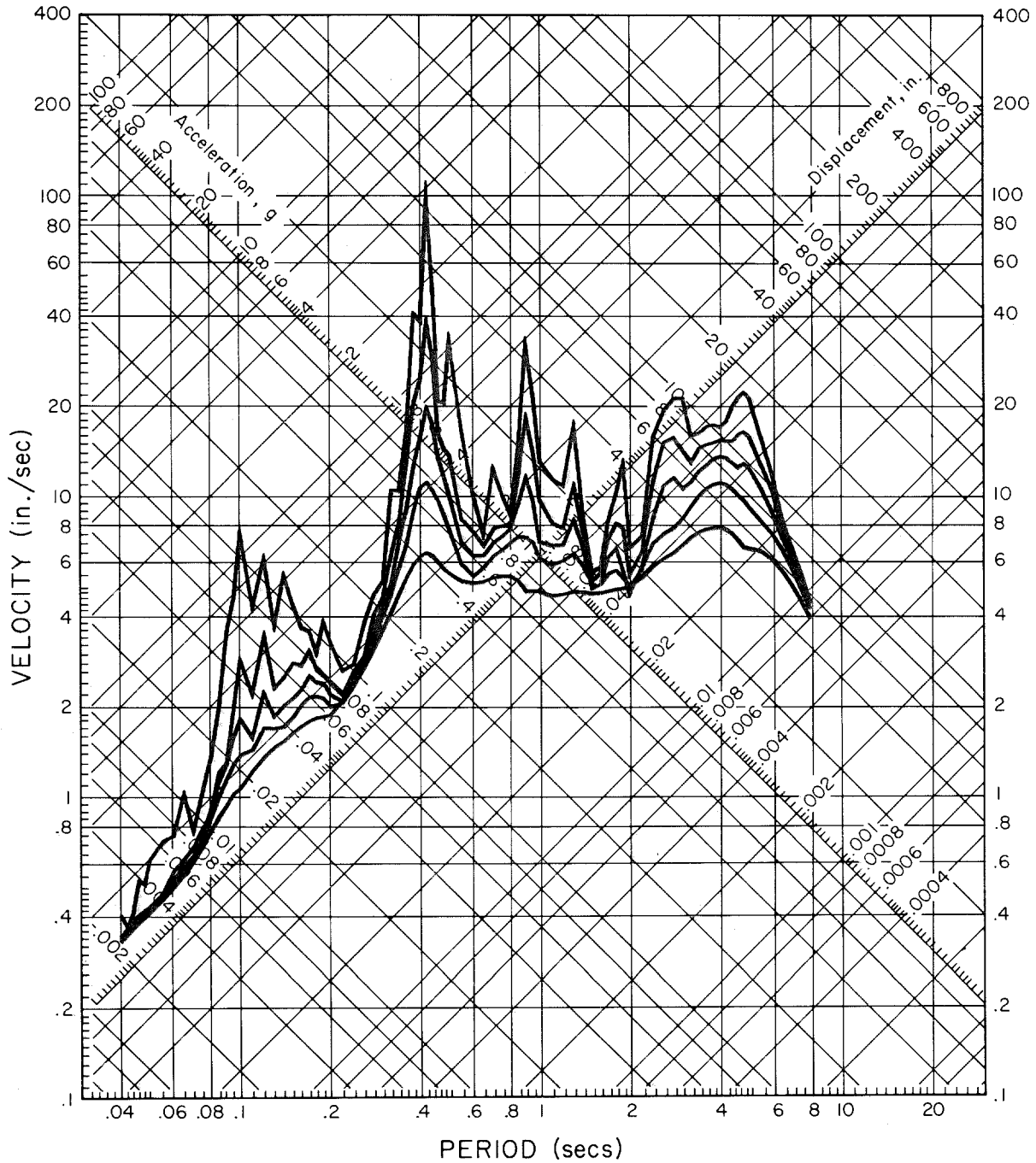


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

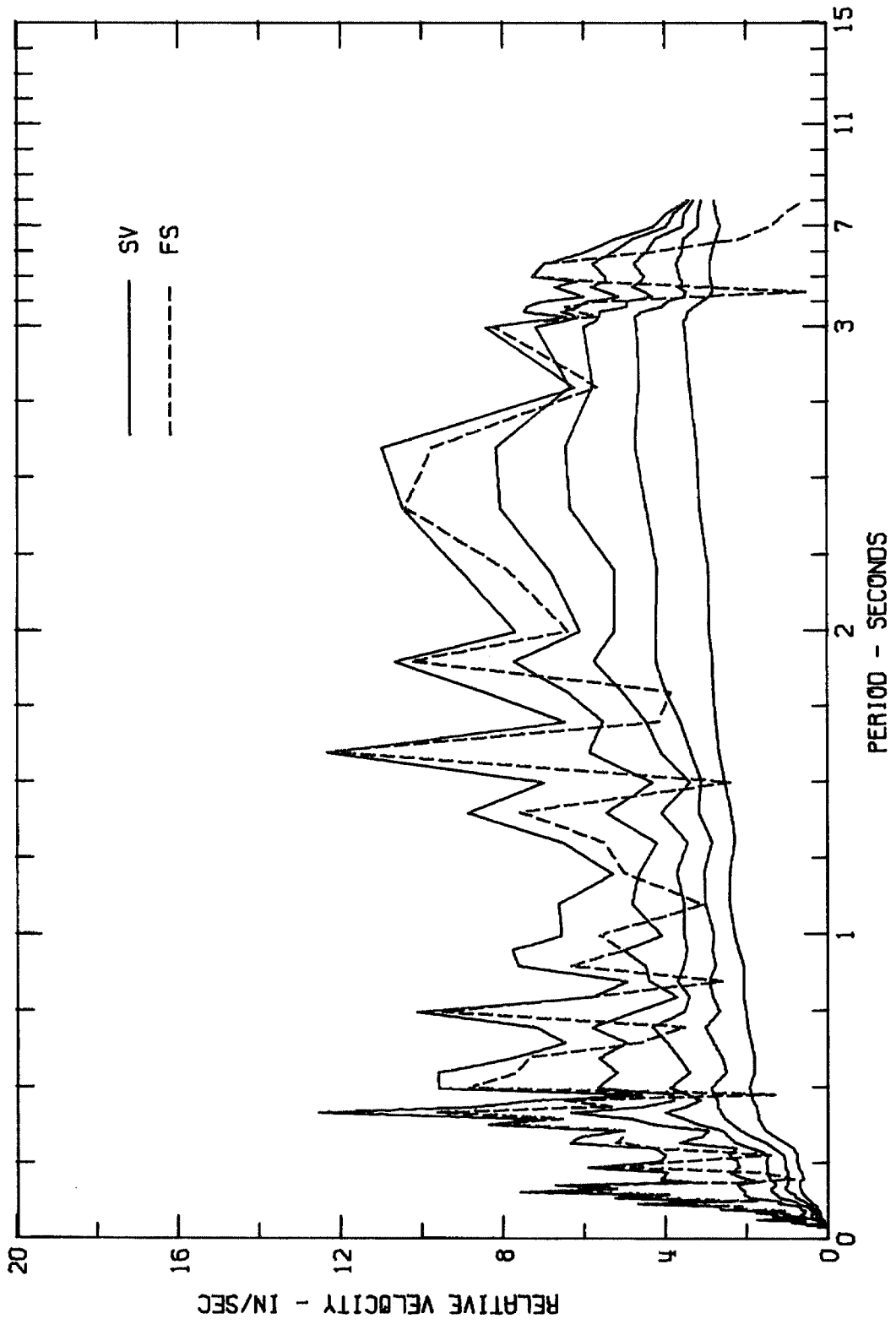
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0.044	672-4	293-5	101-3	155-3	415-3	274-5	822-4	144-3	391-3	266-5	732-4	140-3	380-3	261-5	732-4	137-3	372-3	257-5	740-4	135-3	367-3
0.046	174-3	388-5	210-3	187-3	530-3	298-5	828-4	144-3	407-3	291-5	785-4	140-3	397-3	284-5	802-4	137-3	389-3	280-5	823-4	135-3	383-3
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0.065	563-3	106-4	613-3	258-3	103-2	647-5	281-3	156-3	625-3	615-5	250-3	149-3	595-3	589-5	224-3	142-3	569-3	572-5	199-3	139-3	553-3
0.070	478-4	863-5	379-3	180-3	775-3	765-5	275-3	159-3	687-3	715-5	263-3	149-3	642-3	697-5	230-3	146-3	625-3	683-5	239-3	143-3	613-3
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0.080	510-3	175-4	952-3	281-3	138-2	113-4	506-3	180-3	888-3	117-4	465-3	187-3	921-3	109-4	412-3	176-3	863-3	986-5	338-3	161-3	774-3
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0.095	285-2	708-4	407-2	802-3	468-2	302-4	160-2	341-3	200-2	241-4	115-2	274-3	159-2	195-4	820-3	225-3	129-2	155-4	525-3	181-3	102-2
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0.110	172-2	755-4	415-2	638-3	431-2	388-4	211-2	330-3	221-2	277-4	127-2	233-3	158-2	253-4	869-3	214-3	145-2	215-4	605-3	185-3	123-2
0.130	206-2	120-3	616-2	855-3	630-2	669-4	293-2	477-3	350-2	429-4	184-2	301-3	224-2	328-4	117-2	236-3	171-2	262-4	712-3	193-3	147-2
0.140	542-2	123-3	542-2	644-3	554-2	565-4	210-2	295-3	253-2	455-4	157-2	241-3	204-2	385-4	116-2	203-3	172-2	345-4	867-3	188-3	155-2
0.150	186-2	105-3	363-2	479-3	442-2	674-4	240-2	307-3	282-2	515-4	162-2	235-3	215-2	445-4	120-2	203-3	186-2	394-4	906-3	187-3	165-2
0.160	289-2	941-4	330-2	376-3	369-2	705-4	251-2	281-3	277-2	586-4	174-2	234-3	230-2	523-4	137-2	211-3	205-2	441-4	964-3	183-3	173-2
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0.200	167-2	105-3	272-2	270-3	331-2	767-4	164-2	196-3	241-2	702-4	140-2	177-3	220-2	643-4	123-2	171-3	202-2	603-4	105-2	161-3	189-2
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0.240	193-2	106-3	214-2	189-3	279-2	101-3	193-2	180-3	265-2	957-4	173-2	172-3	250-2	902-4	161-2	160-3	236-2	907-4	146-2	163-3	237-2
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0.550	125-1	144-2	163-1	487-3	164-1	740-3	944-2	249-3	846-2	621-3	791-2	215-3	710-2	525-3	669-2	182-3	600-2	464-3	542-2	169-3	530-2
0.600	615-2	979-3	109-1	278-3	102-1	734-3	836-2	208-3	769-2	612-3	752-2	175-3	640-2	524-3	649-2	152-3	549-2	498-3	546-2	152-3	521-2
0.650	658-2	780-3	792-2	188-3	754-2	715-3	746-2	173-3	691-2	668-3	753-2	162-3	645-2	608-3	686-2	151-3	587-2	545-3	562-2	144-3	527-2
0.700	102-1	139-2	126-1	291-3	125-1	880-3	931-2	184-3	790-2	793-3	836-2	165-3	712-2	715-3	730-2	153-3	641-2	606-3	574-2	138-3	544-2



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	742-2	121-2	112-1	221-3	101-1	966-3	964-2	175-3	809-2	891-3	855-2	163-3	746-2	804-3	737-2	150-3	673-2
0.80	505-2	110-2	842-2	177-3	871-2	103-2	853-2	165-3	810-2	100-2	845-2	161-3	791-2	905-3	734-2	149-3	711-2
0.85	922-2	203-2	154-1	288-3	150-1	159-2	122-1	226-3	117-1	125-2	938-2	185-3	957-2	100-2	765-2	146-3	745-2
0.90	301-1	465-2	325-1	588-3	325-1	265-2	169-1	336-3	185-1	167-2	119-1	213-3	117-1	106-2	839-2	136-3	742-2
0.95	181-1	333-2	226-1	378-3	220-1	216-2	147-1	245-3	142-1	149-2	105-1	169-3	986-2	107-2	763-2	124-3	712-2
1.00	664-2	209-2	140-1	213-3	131-1	155-2	113-1	159-3	977-2	113-2	894-2	117-3	713-2	100-2	675-2	104-3	631-2
1.10	997-2	201-2	113-1	170-3	115-1	144-2	871-2	122-3	825-2	121-2	708-2	102-3	694-2	104-2	603-2	850-4	598-2
1.20	102-1	209-2	107-1	148-3	109-1	152-2	832-2	108-3	796-2	133-2	725-2	949-4	697-2	118-2	612-2	850-4	620-2
1.30	162-1	358-2	168-1	216-3	173-1	227-2	113-1	138-3	110-1	175-2	793-2	106-3	849-2	135-2	594-2	831-4	653-2
1.40	607-2	191-2	918-2	597-4	857-2	169-2	757-2	888-4	762-2	151-2	674-2	794-4	677-2	131-2	584-2	701-4	590-2
1.50	251-2	134-2	741-2	611-4	563-2	126-2	692-2	578-4	531-2	119-2	614-2	550-4	500-2	122-2	541-2	572-4	515-2
1.60	220-2	151-2	753-2	603-4	593-3	143-2	668-2	576-4	564-2	132-2	583-2	535-4	519-2	131-2	505-2	537-4	516-2
1.70	561-2	229-2	857-2	812-4	848-2	198-2	677-2	702-4	732-2	172-2	561-2	615-4	638-2	152-2	494-2	551-4	562-2
1.80	837-2	297-2	102-1	938-4	103-1	236-2	766-2	746-4	825-2	195-2	638-2	622-4	682-2	164-2	540-2	536-4	575-2
1.90	121-1	393-2	128-1	111-3	129-1	239-2	764-2	678-4	791-2	172-2	645-2	491-4	569-2	163-2	548-2	478-4	540-2
2.00	354-2	217-2	718-2	554-4	681-2	176-2	655-2	452-4	553-2	152-2	595-2	391-4	478-2	161-2	522-2	428-4	508-2
2.20	650-2	263-2	820-2	556-4	752-2	233-2	729-2	494-4	667-2	207-2	628-2	441-4	592-2	204-2	521-2	445-4	584-2
2.40	160-1	612-2	160-1	108-3	160-1	434-2	104-1	771-4	113-1	329-2	811-2	587-4	862-2	270-2	643-2	495-4	708-2
2.60	148-1	811-2	203-1	122-3	156-1	632-2	148-1	958-4	152-1	457-2	110-1	695-4	110-1	315-2	774-2	492-4	762-2
2.80	214-1	955-2	214-1	124-3	214-1	705-2	155-1	921-4	158-1	521-2	117-1	684-4	116-1	355-2	813-2	474-4	797-2
3.00	214-1	102-1	215-1	116-3	214-1	682-2	149-1	775-4	142-1	512-2	114-1	585-4	107-1	410-2	868-2	470-4	859-2
3.20	143-1	816-2	168-1	815-4	160-1	666-2	132-1	666-4	130-1	578-2	110-1	581-4	113-1	480-2	911-2	487-4	943-2
3.40	899-2	889-2	159-1	786-4	164-1	787-2	138-1	698-4	145-1	662-2	121-1	591-4	122-1	551-2	992-2	500-4	101-1
3.60	118-1	987-2	175-1	779-4	172-1	861-2	158-1	679-4	150-1	736-2	137-1	584-4	128-1	616-2	109-1	496-4	107-1
3.80	130-1	105-1	184-1	749-4	172-1	994-2	164-1	653-4	156-1	874-2	148-1	562-4	137-1	717-2	124-1	468-4	111-1
4.00	128-1	109-1	194-1	700-4	172-1	994-2	173-1	636-4	156-1	813-2	140-1	578-4	134-1	672-2	117-1	483-4	111-1
4.20	150-1	120-1	189-1	658-4	180-1	103-1	171-1	599-4	154-1	907-2	147-1	529-4	135-1	744-2	127-1	444-4	111-1
4.40	188-1	141-1	200-1	747-4	202-1	107-1	163-1	570-4	154-1	916-2	144-1	486-4	130-1	750-2	127-1	409-4	107-1
4.60	216-1	158-1	216-1	765-4	216-1	118-1	170-1	575-4	162-1	925-2	139-1	449-4	126-1	750-2	124-1	369-4	102-1
4.80	225-1	171-1	225-1	763-4	225-1	126-1	165-1	561-4	165-1	990-2	132-1	442-4	129-1	754-2	119-1	342-4	987-2
5.00	215-1	171-1	220-1	702-4	215-1	127-1	160-1	522-4	160-1	100-1	131-1	413-4	126-1	744-2	113-1	314-4	935-2
5.50	151-1	138-1	168-1	465-4	158-1	112-1	146-1	380-4	128-1	937-2	124-1	319-4	107-1	730-2	103-1	260-4	834-2
6.00	874-2	113-1	123-1	321-4	118-1	100-1	111-1	286-4	105-1	853-2	996-2	244-4	894-2	725-2	957-2	221-4	759-2
6.50	559-2	869-2	102-1	210-4	84C-2	801-2	979-2	194-4	774-2	756-2	920-2	187-4	731-2	692-2	900-2	183-4	669-2
7.00	440-2	753-2	998-2	157-4	676-2	728-2	963-2	152-4	654-2	693-2	913-2	147-4	622-2	645-2	840-2	150-4	578-2
7.50	345-2	666-2	954-2	121-4	558-2	651-2	928-2	118-4	546-2	629-2	890-2	115-4	527-2	594-2	828-2	123-4	497-2
8.00	246-2	585-2	905-2	935-5	459-2	579-2	887-2	930-5	455-2	568-2	858-2	921-5	446-2	547-2	811-2	101-4	430-2

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

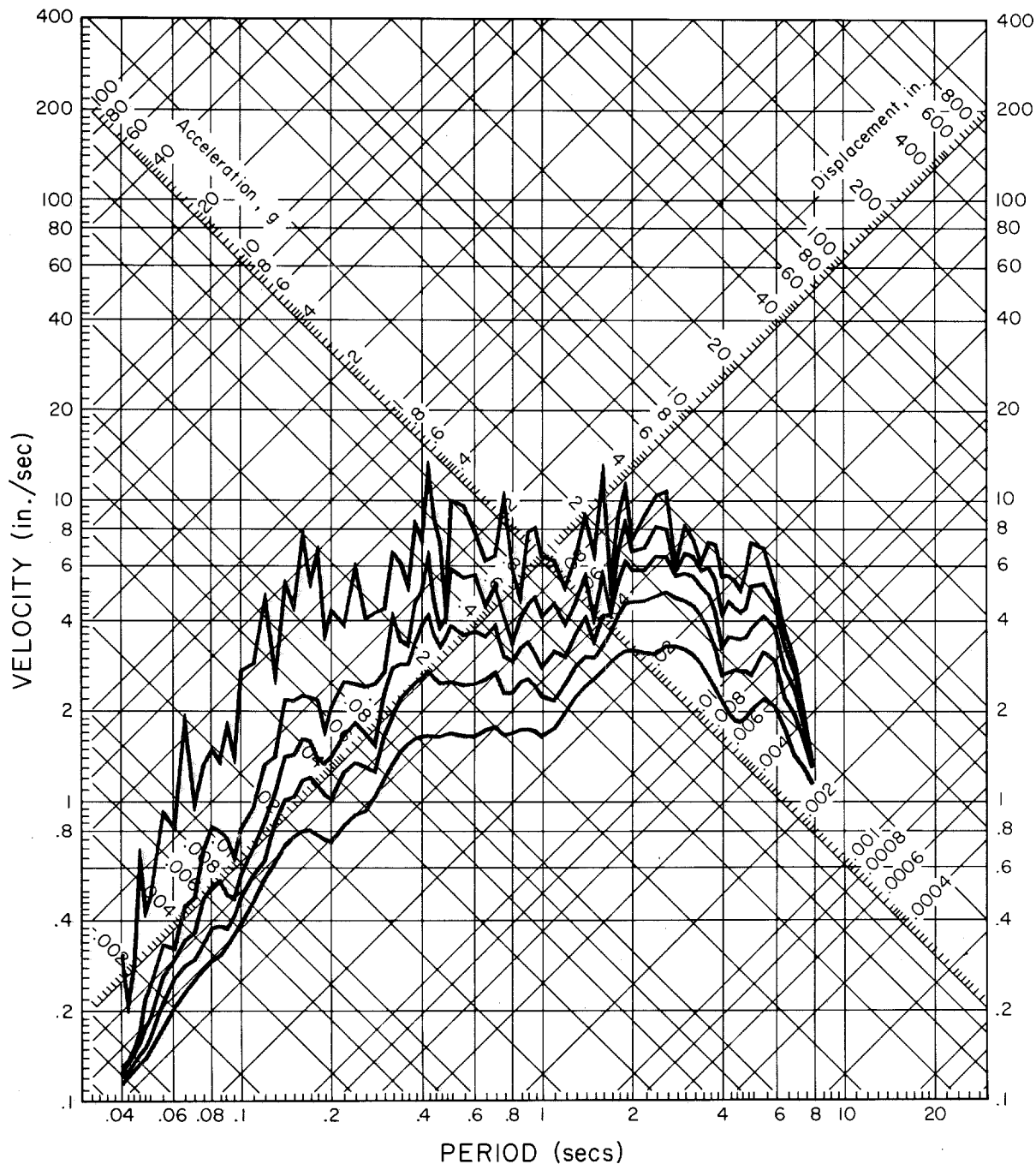


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIII129 71.088.0 435 NORTH OAKHURST AVENUE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP CCWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FCR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT    DAMPING = 2 PER CENT    DAMPING = 5 PER CENT    DAMPING = 10 PER CENT    DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	224-3	194-5	242-3	124-3	305-3	828-6	633-4	528-4	130-3	797-6	527-4	511-4	125-3	767-6	565-4	494-4	120-3
0.042	819-4	138-5	129-3	800-4	206-3	910-6	715-4	528-4	136-3	889-6	657-4	519-4	133-3	841-6	650-4	496-4	125-3
0.044	147-3	198-5	192-3	104-3	283-3	104-5	898-4	552-4	149-3	100-5	845-4	527-4	143-3	934-6	764-4	492-4	133-3
0.046	504-3	466-5	564-3	225-3	636-3	124-5	123-3	602-4	170-3	114-5	105-3	561-4	156-3	104-5	877-4	505-4	142-3
0.048	130-3	324-5	391-3	143-3	424-3	167-5	171-3	745-4	243-3	134-5	125-3	597-4	175-3	115-5	982-4	514-4	151-3
0.050	169-3	381-5	432-3	156-3	479-3	193-5	185-3	790-4	243-3	151-5	135-3	617-4	190-3	130-5	104-3	546-4	164-3
0.055	898-3	802-5	905-3	271-3	917-3	291-5	245-3	990-4	332-3	228-5	179-3	774-4	261-3	186-5	129-3	633-4	213-3
0.060	583-3	772-5	717-3	219-3	808-3	308-5	264-3	879-4	322-3	283-5	193-3	808-4	297-3	244-5	149-3	702-4	256-3
0.065	161-2	189-4	178-2	458-3	183-2	461-5	218-3	111-3	445-3	355-5	234-3	869-4	343-3	292-5	189-3	715-4	282-3
0.070	509-3	107-4	916-3	224-3	967-3	529-5	409-3	113-3	475-3	406-5	316-3	855-4	364-3	329-5	251-3	695-4	295-3
0.075	660-3	158-4	127-2	287-3	132-2	823-5	648-3	148-3	690-3	562-5	424-3	102-3	471-3	400-5	296-3	738-4	335-3
0.080	109-2	188-4	138-2	301-2	148-2	104-4	731-3	166-3	822-3	656-5	432-3	105-3	515-3	479-5	311-3	774-4	376-3
0.085	972-3	182-4	126-2	258-3	134-2	107-4	699-3	151-3	793-3	728-5	434-3	102-3	528-3	519-5	297-3	751-4	384-3
0.090	164-2	256-4	179-2	323-3	179-2	107-4	595-3	134-3	748-3	695-5	376-3	876-4	485-3	539-5	282-3	692-4	376-3
0.095	103-2	211-4	134-2	239-3	139-2	969-5	569-3	110-3	641-3	712-5	409-3	808-4	471-3	626-5	288-3	709-4	414-3
0.100	238-2	433-4	266-2	443-3	272-2	128-4	665-3	130-3	809-3	899-5	426-3	933-4	565-3	756-5	322-3	777-4	475-3
0.110	212-2	505-4	272-2	426-3	288-2	166-4	753-3	149-3	953-3	121-4	557-3	102-3	696-3	992-5	425-3	844-4	566-3
0.120	471-2	902-4	467-2	640-3	472-2	252-4	125-2	179-3	132-2	163-4	754-3	116-3	854-3	120-4	506-3	874-4	632-3
0.130	171-2	537-4	252-2	325-3	259-2	291-4	121-2	175-3	140-2	219-4	847-3	134-3	106-2	174-4	642-3	105-3	843-3
0.140	492-2	118-3	529-2	619-3	532-2	485-4	197-2	253-3	218-2	313-4	120-2	163-3	140-2	225-4	806-3	118-3	101-2
0.150	386-2	105-3	430-2	481-3	443-2	516-4	207-2	236-3	216-2	340-4	128-2	156-3	142-2	247-4	851-3	116-3	103-2
0.160	688-2	194-3	762-2	776-3	763-2	571-4	207-2	229-3	224-2	411-4	138-2	163-3	161-2	295-4	998-3	121-3	117-2
0.170	521-2	143-3	523-2	508-3	531-2	600-4	214-2	213-3	221-2	428-4	143-2	153-3	158-2	324-4	107-2	115-3	119-2
0.180	652-2	193-3	675-2	611-3	676-2	620-4	225-2	197-3	216-2	395-4	128-2	126-3	137-2	321-4	103-2	102-3	112-2
0.190	197-2	108-3	339-2	306-3	357-2	516-4	168-2	145-3	170-2	404-4	132-2	114-3	133-2	317-4	995-3	921-4	105-2
0.200	847-3	137-3	415-2	350-3	431-2	656-4	205-2	167-3	206-2	448-4	145-2	115-3	140-2	322-4	100-2	873-4	101-2
0.220	163-2	135-3	357-2	285-3	386-2	878-4	242-2	186-3	250-2	583-4	150-2	123-3	166-2	437-4	988-3	946-4	124-2
0.240	545-2	229-3	594-2	407-3	600-2	942-4	219-2	168-3	246-2	698-4	151-2	126-3	182-2	515-4	106-2	939-4	134-2
0.260	326-2	167-3	408-2	253-3	405-2	998-4	227-2	150-3	241-2	695-4	152-2	103-3	168-2	537-4	107-2	837-4	129-2
0.280	143-2	189-3	401-2	247-3	425-2	110-3	244-2	143-3	247-2	685-4	146-2	906-4	153-2	560-4	110-2	737-4	125-2
0.300	428-2	209-3	426-2	237-3	438-2	129-3	226-2	146-3	270-2	109-3	193-2	124-3	230-2	794-4	134-2	929-4	166-2
0.320	525-2	341-3	639-2	341-3	671-2	211-3	369-2	211-3	415-2	142-3	230-2	141-3	279-2	985-4	154-2	100-3	193-2
0.340	504-2	334-3	606-2	296-3	618-2	185-3	308-2	164-3	342-2	155-3	247-2	139-3	287-2	119-3	190-2	107-3	220-2
0.360	502-2	296-3	512-2	233-3	517-2	189-3	294-2	149-3	331-2	164-3	258-2	130-3	286-2	134-3	217-2	107-3	234-2
0.380	829-2	508-3	841-2	360-3	841-2	278-3	434-2	198-3	460-2	205-3	322-2	145-3	340-2	150-3	237-2	107-3	248-2
0.400	655-2	468-3	716-2	299-3	735-2	321-3	464-2	208-3	505-2	247-3	356-2	159-3	388-2	164-3	254-2	108-3	258-2
0.420	965-2	850-3	125-1	493-3	127-1	437-3	637-2	254-3	654-2	279-3	402-2	162-3	417-2	181-3	265-2	108-3	271-2
0.440	532-2	604-3	874-2	319-3	863-2	322-3	456-2	170-3	460-2	248-3	349-2	132-3	354-2	180-3	273-2	982-4	258-2
0.460	681-2	530-3	723-2	256-3	724-2	278-3	378-2	134-3	380-2	239-3	315-2	116-3	327-2	181-3	273-2	890-4	248-2
0.480	130-2	332-3	458-2	147-3	434-2	312-3	385-2	138-3	408-2	270-3	346-2	120-3	353-2	190-3	282-2	863-4	249-2
0.500	887-2	798-3	962-2	326-3	100-1	472-3	570-2	192-3	593-2	306-3	391-2	125-3	385-2	199-3	288-2	832-4	250-2
0.520	766-2	843-3	960-2	285-3	963-2	488-3	519-2	165-3	557-2	313-3	341-2	107-3	358-2	213-3	251-2	736-4	244-2
0.550	735-2	755-3	781-2	214-3	791-2	541-3	565-2	153-3	566-2	353-3	366-2	101-3	370-2	235-3	260-2	687-4	246-2
0.600	464-2	654-3	646-2	158-3	632-2	464-3	495-2	112-3	449-2	367-3	396-2	894-4	355-2	264-3	283-2	658-4	255-2
0.700	351-2	729-3	720-2	152-3	655-2	583-3	582-2	122-3	523-2	432-3	433-2	905-4	388-2	301-3	303-2	648-4	270-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND C FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	953-2	122-2	101-1	222-3	102-1	493-3	415-2	896-4	413-2	363-3	353-2	666-4	304-2	273-3	266-2	517-4	229-2	199-3	203-2	415-4	166-2
0.80	580-2	750-3	580-2	119-3	589-2	430-3	371-2	686-4	337-2	373-3	340-2	597-4	293-2	293-3	285-2	483-4	230-2	215-3	208-2	386-4	169-2
0.85	259-2	639-3	492-2	904-4	472-2	551-3	440-2	782-4	407-2	439-3	371-2	626-4	324-2	337-3	292-2	490-4	249-2	235-3	206-2	374-4	173-2
0.90	635-2	112-2	765-2	142-3	787-2	650-3	451-2	820-4	453-2	487-3	355-2	620-4	340-2	367-3	277-2	474-4	256-2	251-3	208-2	349-4	175-2
0.95	505-2	123-2	778-2	139-3	814-2	724-3	505-2	821-4	479-2	468-3	347-2	533-4	309-2	366-3	284-2	428-4	242-2	260-3	221-2	320-4	172-2
1.00	562-2	104-2	657-2	104-3	654-2	660-3	408-2	676-4	415-2	446-3	355-2	459-4	280-2	357-3	280-2	379-4	224-2	262-3	231-2	301-4	165-2
1.10	306-2	110-2	664-2	937-4	633-2	801-3	483-2	677-4	457-2	554-3	355-2	471-4	316-2	380-3	302-2	334-4	217-2	308-3	242-2	286-4	176-2
1.20	500-2	980-3	529-2	696-4	513-2	744-3	464-2	529-4	389-2	580-3	372-2	414-4	304-2	473-3	304-2	342-4	247-2	379-3	241-2	279-4	198-2
1.30	550-2	135-2	653-2	822-4	456-2	954-3	420-2	577-4	461-2	753-3	344-2	457-4	364-2	588-3	284-2	361-4	284-2	462-3	229-2	288-4	223-2
1.40	761-2	198-2	888-2	103-3	890-2	126-2	547-2	659-4	566-2	920-3	411-2	482-4	413-2	681-3	319-2	361-4	305-2	539-3	239-2	295-4	242-2
1.50	238-2	158-2	699-2	718-4	662-2	966-3	430-2	439-4	404-2	815-3	338-2	373-4	341-2	723-3	311-2	333-4	302-2	614-3	255-2	296-4	257-2
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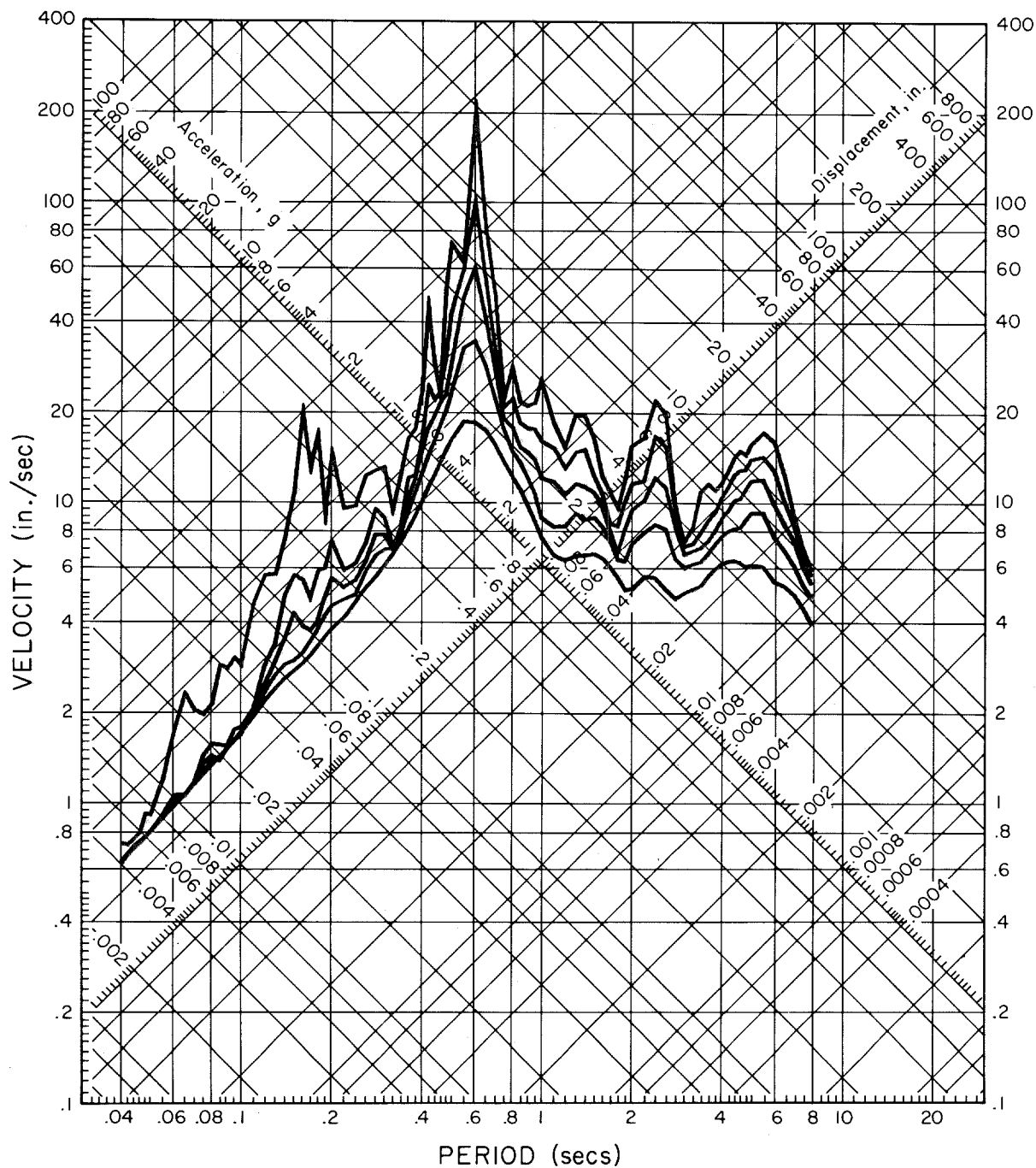


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII130 71.089.0 435 NORTH OAKHURST AVENUE, ROOF, BEVERLY HILLS, CAL. COMP NODE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL







THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

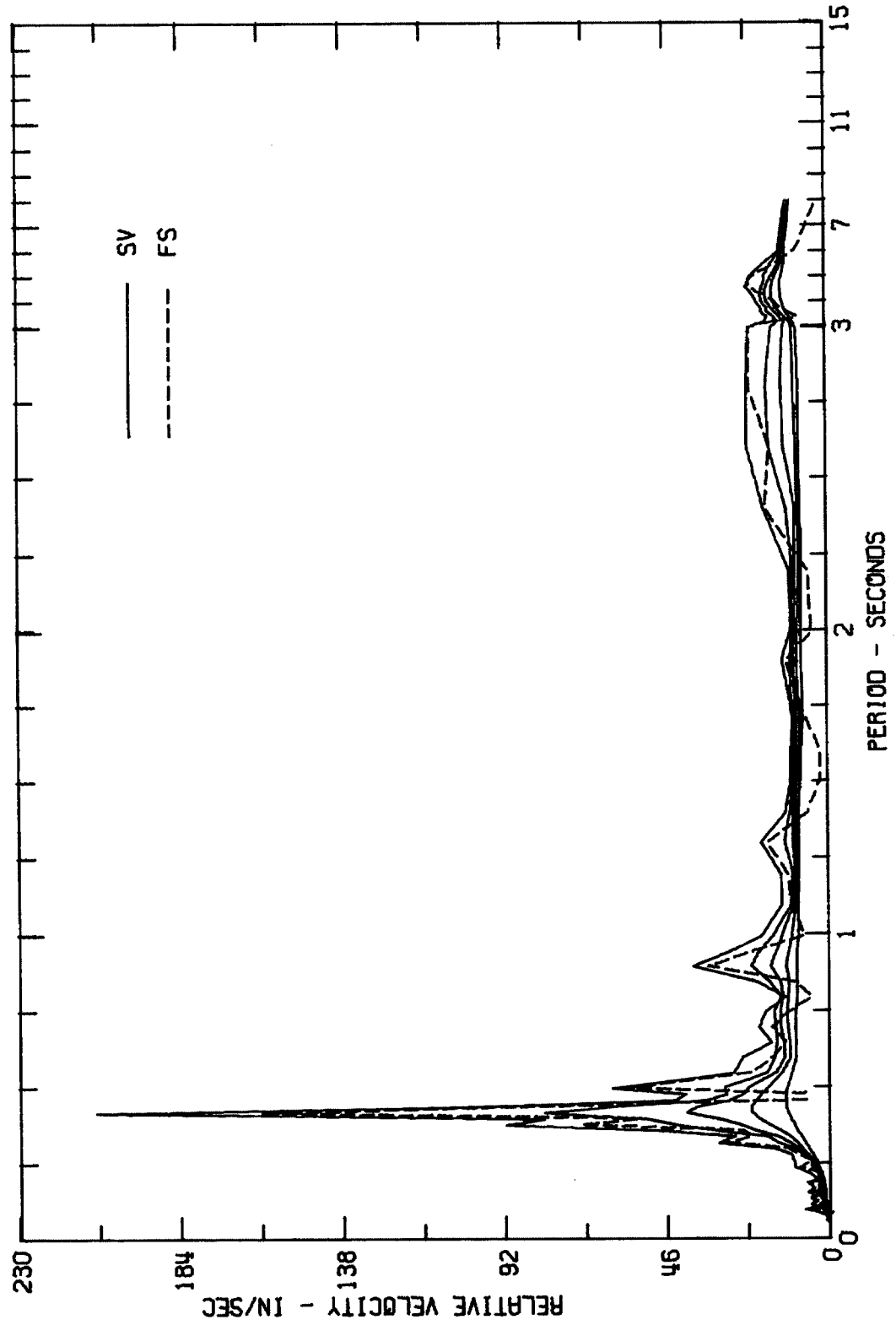
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0.95	136-1	326-2	268-1	370-3	216-1	267-2	224-1	303-3	176-1	210-2	186-1	240-3	139-1	161-2	156-1	191-3	106-1	130-2	133-1	176-3	865-2
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# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111130 71.089.0 435 NORTH OAKHURST AVENUE, ROOF, BEVERLY HILLS, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

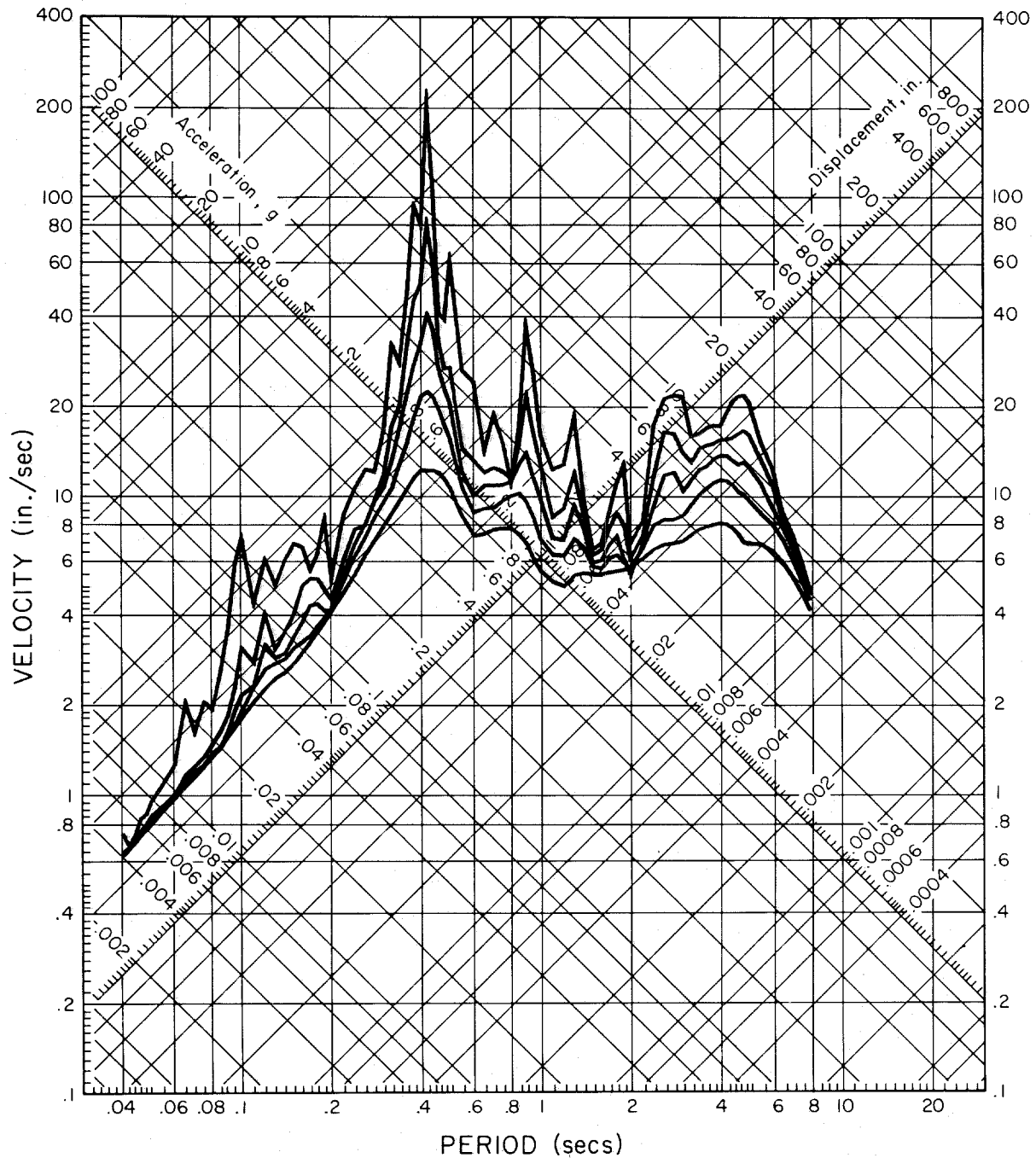


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SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII130 71.089.0 435 NORTH OAKHURST AVENUE, ROOF, BEVERLY HILLS, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

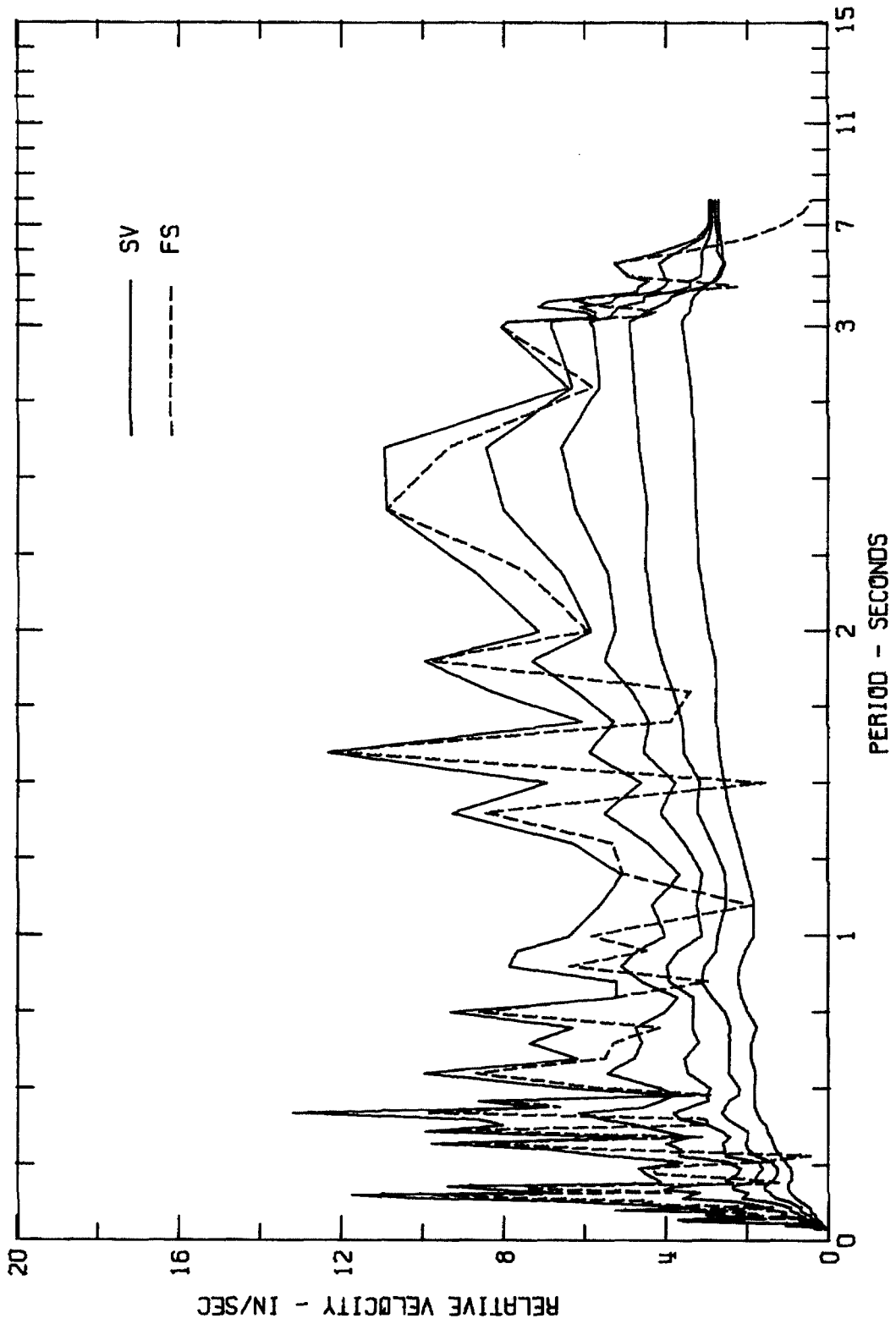
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

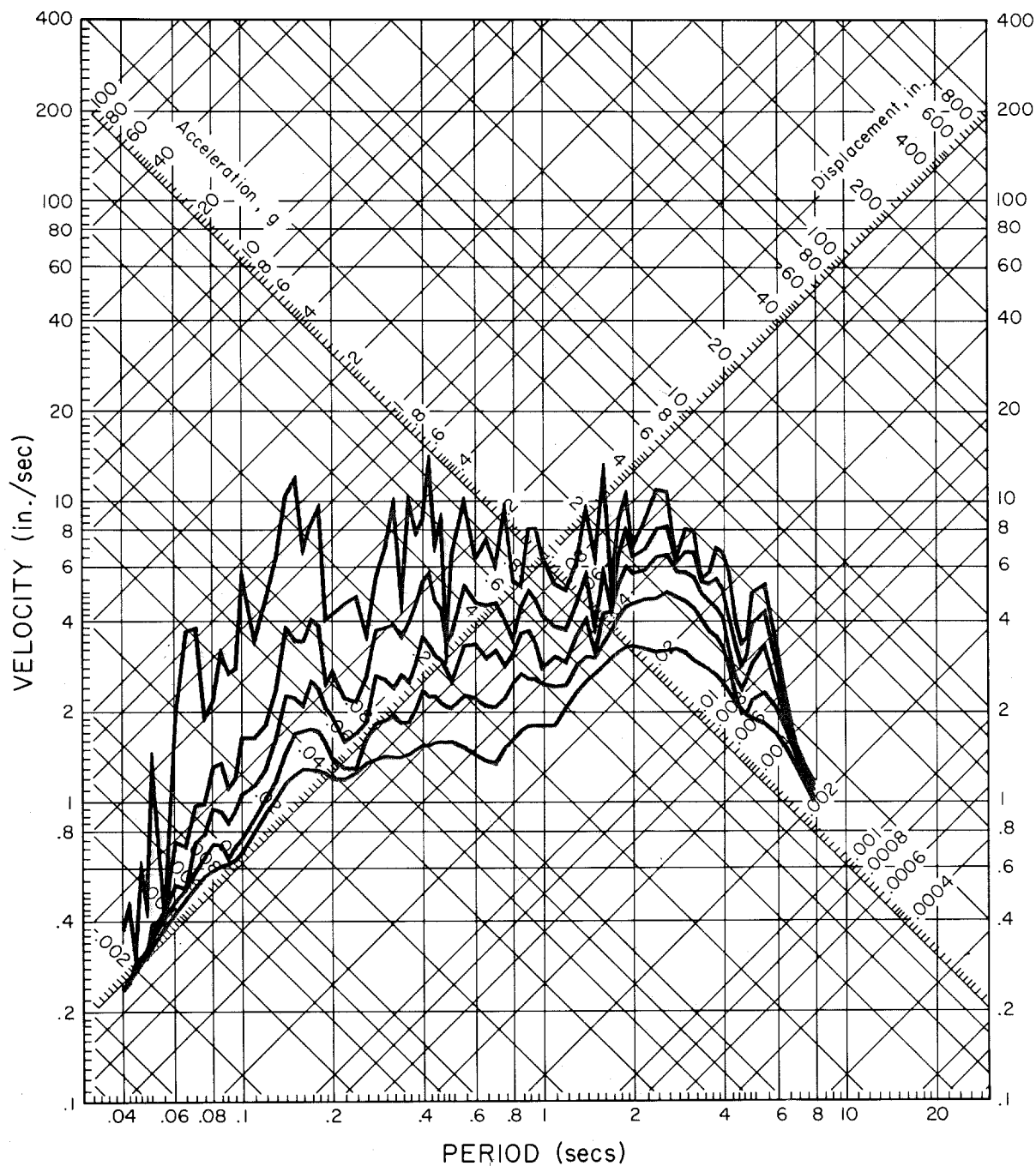
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111130 71.089.0 435 NORTH OAKHURST AVENUE, ROOF, BEVERLY HILLS, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIII130 71.089.0 435 NORTH OAKHURST AVENUE, ROOF, BEVERLY HILLS, CAL. CCMP DCWN

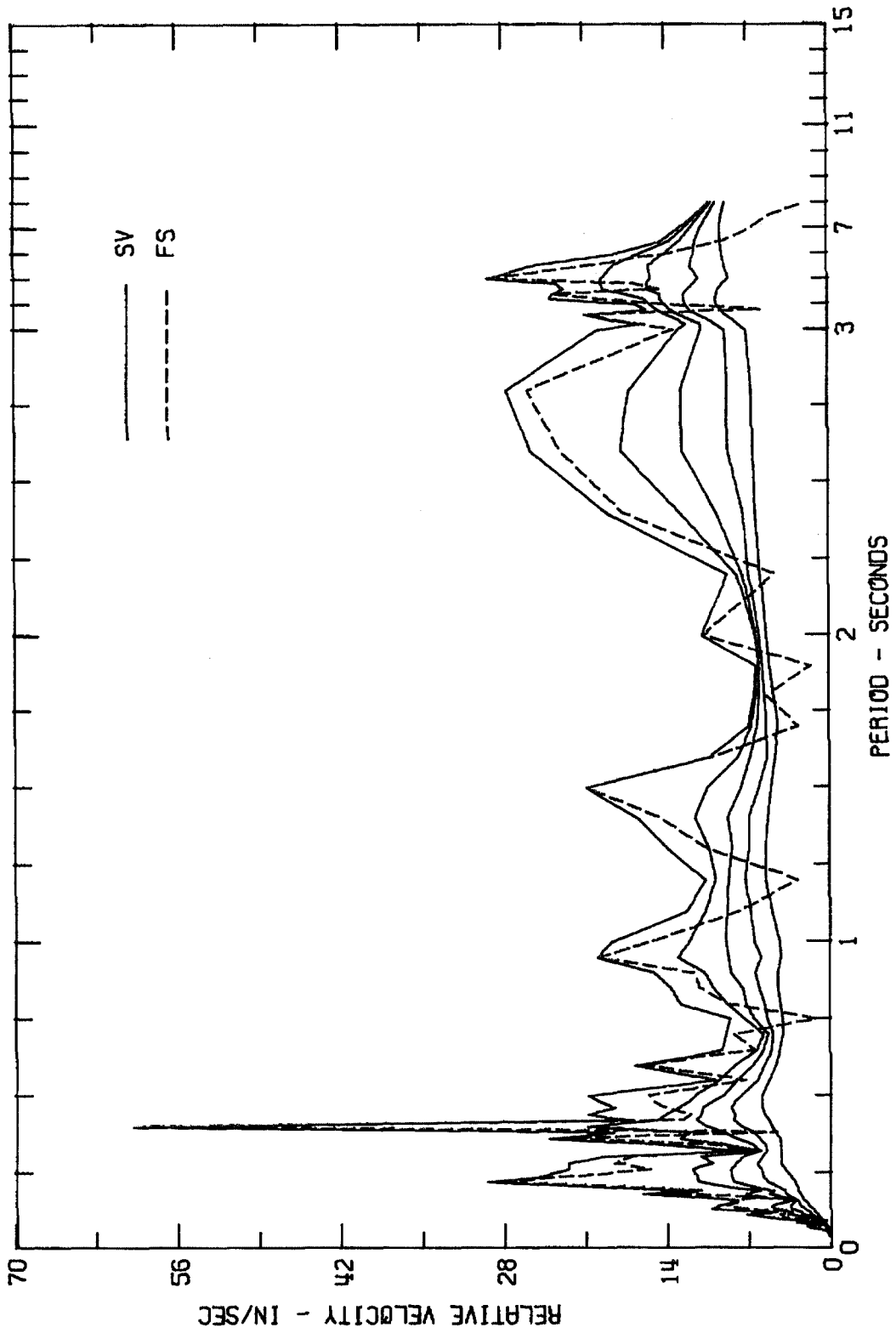
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND C FCR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
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0.200	171-2	133-3	416-2	340-3	418-2	863-4	253-2	219-3	271-2	608-4	180-20																																						





RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP N50E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

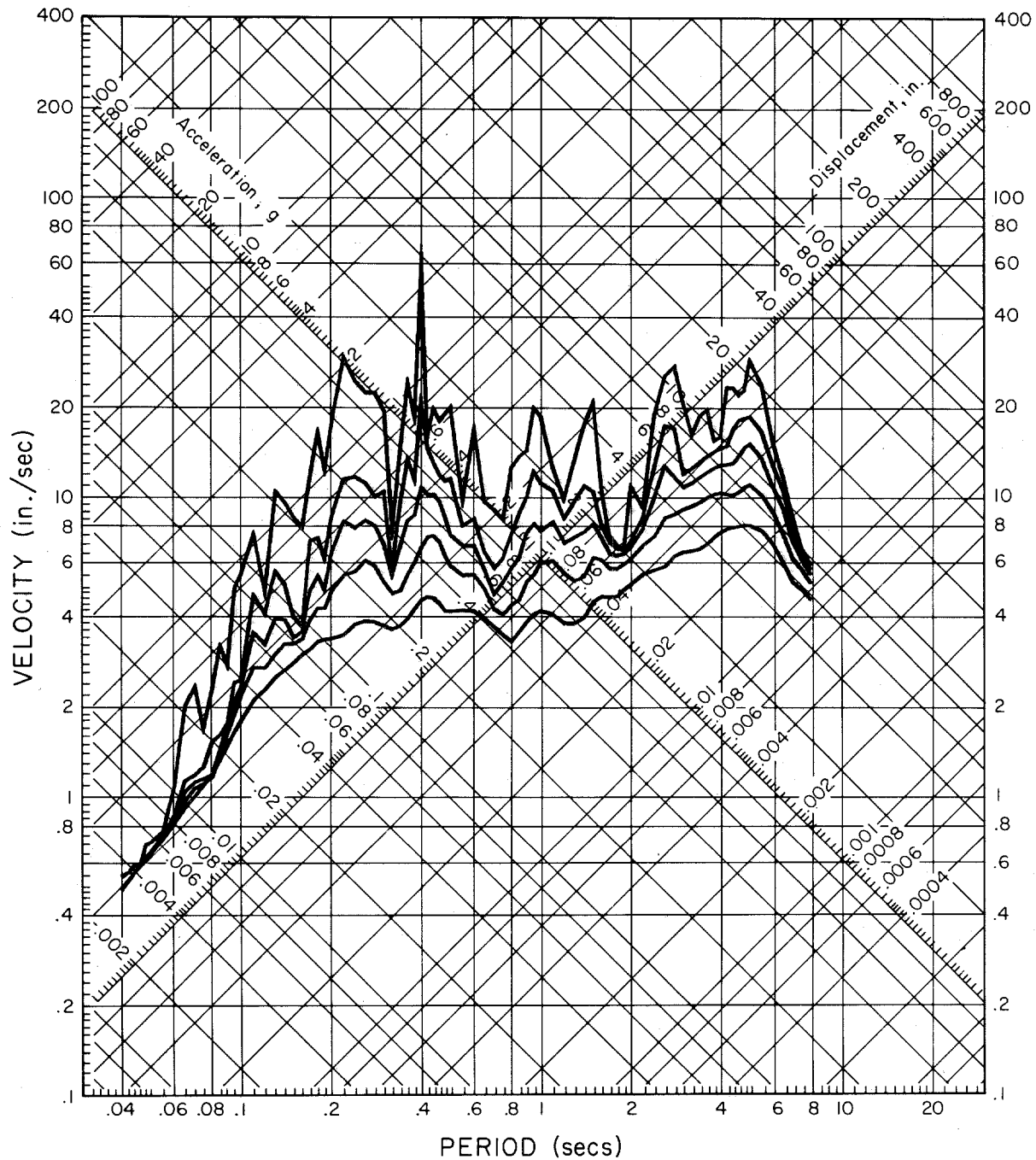


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP N50E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



III1131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLCCR, BEVERLY HILLS, CAL. COMP N50E  
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

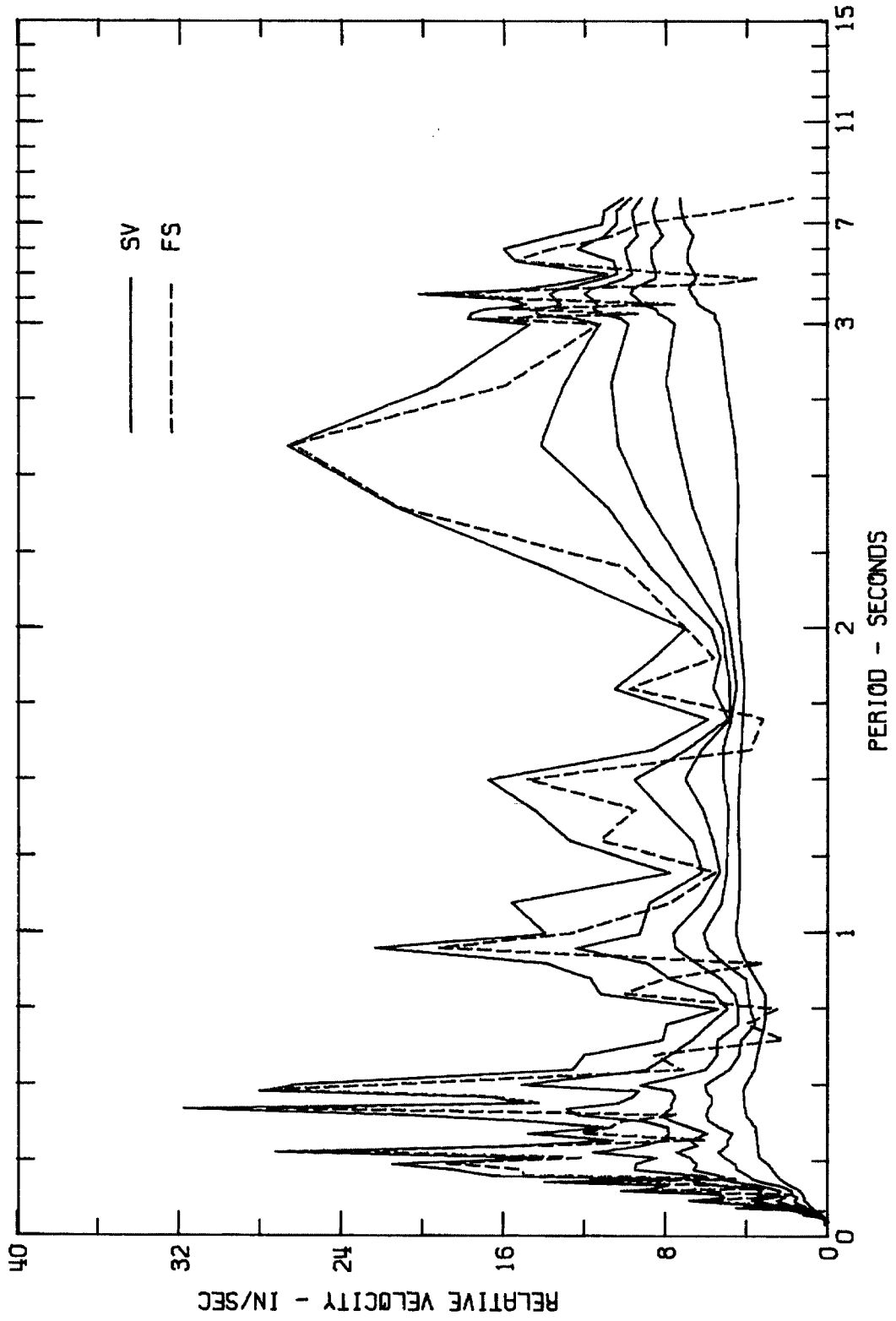
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
O.040	177-3	345-5	207-3	221-3	543-3	311-5	132-3	199-3	489-3	313-5	129-3	201-3	493-3	316-5	126-3	203-3	497-3
O.042	931-4	373-5	156-3	216-3	558-3	351-5	142-3	203-3	525-3	351-5	140-3	203-3	525-3	352-5	138-3	205-3	526-3
O.044	102-3	416-5	154-3	219-3	594-3	390-5	150-3	206-3	557-3	391-5	151-3	206-3	558-3	390-5	150-3	207-3	557-3
O.046	108-3	432-5	212-3	208-3	590-3	433-5	168-3	209-3	592-3	433-5	165-3	209-3	592-3	431-5	164-3	209-3	589-3
O.048	240-4	529-5	284-3	234-3	692-3	482-5	174-3	214-3	632-3	478-5	176-3	212-3	626-3	475-5	178-3	212-3	622-3
O.050	150-3	563-5	349-3	230-3	708-3	519-5	186-3	212-3	653-3	521-5	194-3	213-3	655-3	522-5	195-3	213-3	656-3
O.055	120-3	679-5	372-3	229-3	715-3	649-5	221-3	219-3	741-3	654-5	250-3	220-3	747-3	655-5	245-3	221-3	748-3
O.060	782-3	104-4	816-3	297-3	109-2	840-5	297-3	238-3	880-3	829-5	307-3	234-3	868-3	818-5	297-3	232-3	856-3
O.065	176-2	211-4	192-2	512-3	204-2	117-4	542-3	285-3	113-2	108-4	416-3	261-3	104-2	100-4	352-3	246-3	975-3
O.070	190-2	263-4	213-2	549-3	236-2	132-4	554-3	275-3	118-2	125-4	411-3	263-3	112-2	119-4	372-3	251-3	107-2
O.075	903-3	201-4	124-2	367-3	169-2	151-4	640-3	275-3	126-2	138-4	488-3	250-3	118-2	132-4	466-3	244-3	111-2
O.080	483-3	297-4	190-2	474-3	233-2	195-4	105-2	311-3	153-2	151-4	702-3	242-3	118-2	148-4	561-3	238-3	116-2
O.085	253-2	435-4	301-2	616-3	321-2	219-4	121-2	310-3	162-2	193-4	944-3	274-3	142-2	185-4	747-3	263-3	137-2
O.090	276-3	396-4	217-2	500-3	276-2	256-4	124-2	324-3	178-2	252-4	107-2	320-3	176-2	235-4	942-3	296-3	164-2
O.095	319-2	765-4	452-2	667-3	506-2	369-4	166-2	419-3	244-2	320-4	133-2	361-3	211-2	289-4	112-2	331-3	191-2
O.100	416-2	900-4	531-2	920-3	565-2	393-4	158-2	402-3	247-2	374-4	150-2	389-3	235-2	350-4	134-2	354-3	220-2
O.110	446-2	133-3	733-2	112-2	762-2	293-4	381-2	699-3	475-2	624-4	257-2	522-3	356-2	478-4	175-2	406-3	273-2
O.120	372-2	926-4	463-2	657-3	484-2	783-4	338-2	556-3	410-2	622-4	262-2	438-3	326-2	521-4	191-2	381-3	272-2
O.130	741-2	219-3	102-1	133-2	106-1	118-3	503-2	717-3	573-2	824-4	348-2	504-3	398-2	625-4	229-2	381-3	302-2
O.140	900-2	215-3	952-2	112-2	567-2	114-3	505-2	600-3	513-2	875-4	343-2	460-3	393-2	729-4	261-2	390-3	327-2
O.150	809-2	204-3	850-2	931-3	858-2	956-4	384-2	432-3	400-2	818-4	316-2	375-3	342-2	779-4	274-2	355-3	326-2
O.160	772-2	205-3	798-2	821-3	807-2	945-4	318-2	376-3	371-2	919-4	287-2	371-3	360-2	865-4	288-2	346-3	340-2
O.170	565-2	329-3	114-1	116-2	121-1	196-3	655-2	698-3	725-2	134-3	432-2	478-3	455-2	106-3	346-2	382-3	393-2
O.180	148-1	480-3	162-1	151-2	167-1	212-3	729-2	674-3	743-2	158-3	530-2	500-3	553-2	123-3	385-2	392-3	429-2
O.190	110-1	378-3	117-1	101-2	125-1	189-3	601-2	539-3	628-2	149-3	491-2	424-3	455-2	130-3	392-2	371-3	429-2
O.200	157-1	565-3	172-1	144-2	177-1	276-3	819-2	701-3	867-2	209-3	612-2	534-3	657-2	156-3	439-2	397-3	490-2
O.220	289-1	104-2	295-1	220-2	298-1	408-3	114-1	871-3	116-1	295-3	837-2	626-3	842-2	194-3	539-2	412-3	555-2
O.240	214-1	950-3	246-1	168-2	248-1	454-3	115-1	801-3	118-1	306-3	858-2	553-3	802-2	218-3	597-2	387-3	572-2
O.260	154-1	942-3	224-1	142-2	227-1	469-3	118-1	708-3	113-1	351-3	865-2	537-3	849-2	257-3	597-2	404-3	623-2
O.280	185-1	101-2	224-1	132-2	228-1	453-3	101-1	591-3	101-1	363-3	815-2	469-3	816-2	265-3	631-2	362-3	596-2
O.300	169-1	941-3	195-1	106-2	197-1	507-3	111-1	573-3	106-1	335-3	743-2	383-3	701-2	251-3	587-2	289-3	526-2
O.320	694-2	403-3	785-2	402-3	791-2	293-3	550-2	293-3	575-2	282-3	602-2	279-3	554-2	246-3	548-2	252-3	483-2
O.340	105-1	783-3	144-1	693-3	144-1	522-3	926-2	462-3	965-2	374-3	676-2	330-3	692-2	267-3	565-2	241-3	494-2
O.360	231-1	140-2	242-1	111-2	245-1	779-3	129-1	613-3	136-1	487-3	817-2	385-3	850-2	320-3	614-2	260-3	559-2
O.380	456-2	113-2	185-1	804-3	187-1	695-3	120-1	493-3	115-1	537-3	926-2	383-3	888-2	372-3	663-2	275-3	615-2
O.400	597-1	382-2	599-1	244-2	600-1	134-2	210-1	862-3	211-1	696-3	107-1	446-3	109-1	439-3	775-2	289-3	690-2
O.420	127-1	107-2	176-1	620-3	160-1	981-3	149-1	571-3	146-1	692-3	115-1	403-3	103-1	501-3	836-2	294-3	755-2
O.440	120-1	141-2	209-1	746-3	201-1	820-3	140-1	488-3	131-1	730-3	110-1	388-3	104-1	528-3	820-2	284-3	755-2
O.460	143-1	134-2	185-1	647-3	183-1	892-3	130-1	429-3	120-1	716-3	109-1	348-3	978-2	525-3	855-2	260-3	717-2
O.480	152-1	148-2	198-1	657-3	194-1	879-3	122-1	389-3	115-1	662-3	102-1	294-3	867-2	493-3	826-2	226-3	645-2
O.500	157-1	162-2	207-1	666-3	204-1	935-3	116-1	383-3	117-1	602-3	919-2	248-3	756-2	476-3	763-2	200-3	598-2
O.550	732-2	866-3	992-2	292-3	589-2	713-3	955-2	241-3	815-2	611-3	803-2	207-3	698-2	487-3	625-2	167-3	557-2
O.600	161-1	163-2	169-1	463-3	170-1	821-3	852-2	234-3	859-2	666-3	671-2	189-3	698-2	535-3	569-2	155-3	560-2
O.650	644-2	100-2	923-2	244-3	976-2	687-3	626-2	166-3	664-2	600-3	572-2	146-3	580-2	516-3	501-2	128-3	499-2
O.700	829-2	102-2	890-2	214-3	922-2	655-3	568-2	137-3	588-2	536-3	525-2	112-3	481-2	476-3	484-2	102-3	427-2
																	959-4

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
					DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT
																	DAMPING = 20 PER CENT
0.75	124-2	101-2	857-2	185-3	853-2	763-3	739-2	138-3	639-2	632-3	657-2	115-3	530-2	490-3	545-2	922-4	410-2
0.80	896-2	163-2	129-1	261-3	128-1	975-3	884-2	156-3	765-2	750-3	726-2	120-3	589-2	563-3	564-2	937-4	442-2
0.85	112-1	188-2	136-1	266-3	139-1	122-2	100-1	173-3	907-2	869-3	751-2	123-3	642-2	624-3	609-2	909-4	461-2
0.90	116-1	209-2	151-1	263-3	145-1	147-2	107-1	186-3	102-1	111-2	858-2	140-3	775-2	760-3	649-2	975-4	530-2
0.95	200-1	308-2	200-1	349-3	203-1	188-2	131-1	213-3	124-1	125-2	881-2	143-3	831-2	848-3	594-2	990-4	561-2
1.00	154-1	301-2	188-1	308-3	189-1	180-2	121-1	185-3	113-1	124-2	902-2	128-3	783-2	972-3	654-2	103-3	611-2
1.10	782-2	222-2	123-1	188-3	127-1	187-2	106-1	158-3	107-1	147-2	887-2	126-3	844-2	109-2	689-2	939-4	624-2
1.20	269-2	190-2	105-1	135-3	999-2	165-2	974-2	117-3	863-2	136-2	864-2	973-4	712-2	108-2	725-2	786-4	565-2
1.30	105-1	282-2	138-1	170-3	136-1	204-2	103-1	124-3	990-2	154-2	834-2	943-4	747-2	110-2	687-2	684-4	532-2
1.40	145-1	397-2	164-1	207-3	178-1	248-2	115-1	129-3	111-1	173-2	881-2	910-4	780-2	122-2	696-2	656-4	551-2
1.50	209-1	505-2	209-1	229-3	211-1	253-2	104-1	115-3	106-1	198-2	761-2	907-4	829-2	152-2	604-2	715-4	638-2
1.60	100-1	270-2	103-1	107-2	106-1	208-2	790-2	832-4	817-2	188-2	682-2	760-4	740-2	159-2	536-2	666-4	627-2
1.70	262-2	204-2	691-2	722-4	755-2	193-2	661-2	686-4	716-2	178-2	611-2	631-4	658-2	159-2	536-2	590-4	588-2
1.80	536-2	201-2	639-2	636-4	704-2	195-2	624-2	618-4	683-2	185-2	600-2	590-4	648-2	168-2	557-2	530-4	587-2
1.90	157-2	205-2	629-2	582-4	679-2	204-2	606-2	580-4	677-2	198-2	602-2	567-4	657-2	183-2	578-2	532-4	607-2
2.00	109-1	353-2	109-1	904-4	111-1	230-2	639-2	590-4	724-2	220-2	633-2	568-4	693-2	202-2	607-2	530-4	634-2
2.20	464-2	327-2	866-2	691-4	934-2	306-2	792-2	649-4	876-2	280-2	747-2	597-4	802-2	246-2	686-2	530-4	704-2
2.40	177-1	731-2	190-1	129-3	191-1	488-2	127-1	868-4	127-1	387-2	967-2	690-4	101-1	288-2	736-2	523-4	755-2
2.60	231-1	107-1	256-1	163-3	260-1	733-2	179-1	111-3	177-1	536-2	126-1	815-4	129-1	359-2	874-2	554-4	868-2
2.80	258-1	124-1	276-1	163-3	280-1	770-2	170-1	100-3	172-1	529-2	126-1	693-4	118-1	397-2	864-2	532-4	893-2
3.00	132-1	994-2	197-1	112-3	208-1	582-2	128-1	662-4	121-1	525-2	108-1	601-4	110-1	443-2	892-2	517-4	928-2
3.20	163-1	839-2	163-1	838-4	164-1	646-2	121-1	645-4	126-1	579-2	109-1	581-4	113-1	484-2	972-2	493-4	951-2
3.40	190-1	103-1	190-1	911-4	190-1	721-2	129-1	638-4	133-1	641-2	118-1	569-4	118-1	530-2	103-1	474-4	980-2
3.60	200-1	114-1	205-1	907-4	200-1	797-2	139-1	630-4	139-1	707-2	128-1	561-4	123-1	581-2	112-1	467-4	101-1
3.80	580-2	948-2	155-1	672-4	156-1	873-2	147-1	619-4	144-1	772-2	136-1	549-4	127-1	631-2	119-1	454-4	104-1
4.00	144-1	103-1	166-1	660-4	162-1	946-2	153-1	606-4	148-1	831-2	140-1	535-4	130-1	673-2	122-1	442-4	105-1
4.20	196-1	159-1	239-1	922-4	237-1	100-1	158-1	585-4	150-1	875-2	144-1	509-4	130-1	697-2	124-1	419-4	104-1
4.40	236-1	165-1	236-1	875-4	236-1	120-1	174-1	638-4	172-1	926-2	144-1	492-4	132-1	725-2	124-1	397-4	103-1
4.60	145-1	164-1	227-1	793-4	224-1	135-1	193-1	653-4	184-1	102-1	155-1	499-4	140-1	777-2	120-1	387-4	106-1
4.80	167-1	178-1	233-1	792-4	233-1	142-1	195-1	634-4	186-1	114-1	155-1	511-4	149-1	839-2	115-1	381-4	109-1
5.00	293-1	233-1	293-1	955-4	293-1	150-1	195-1	617-4	189-1	122-1	153-1	503-4	153-1	897-2	111-1	378-4	112-1
5.50	206-1	211-1	253-1	715-4	241-1	147-1	183-1	498-4	168-1	120-1	153-1	408-4	137-1	903-2	118-1	318-4	103-1
6.00	135-1	146-1	179-1	417-4	153-1	123-1	160-1	351-4	129-1	104-1	139-1	297-4	109-1	864-2	114-1	258-4	905-2
6.50	882-2	121-1	140-1	295-4	117-1	110-1	134-1	267-4	106-1	980-2	126-1	235-4	928-2	790-2	113-1	199-4	764-2
7.00	658-2	965-2	127-1	201-4	866-2	892-2	123-1	186-4	801-2	800-2	118-1	169-4	718-2	703-2	109-1	158-4	631-2
7.50	505-2	814-2	113-1	148-4	682-2	787-2	112-1	144-4	659-2	750-2	108-1	141-4	628-2	692-2	102-1	139-4	580-2
8.00	188-2	768-2	101-1	122-4	603-2	743-2	101-1	119-4	583-2	715-2	998-2	119-4	561-2	670-2	964-2	120-4	526-2
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																	410-2
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																	425-3
																	442-2
																	461-2
																	530-2
																	561-2
																	611-2
																	624-2
																	723-3
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																	677-2
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP N40W  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

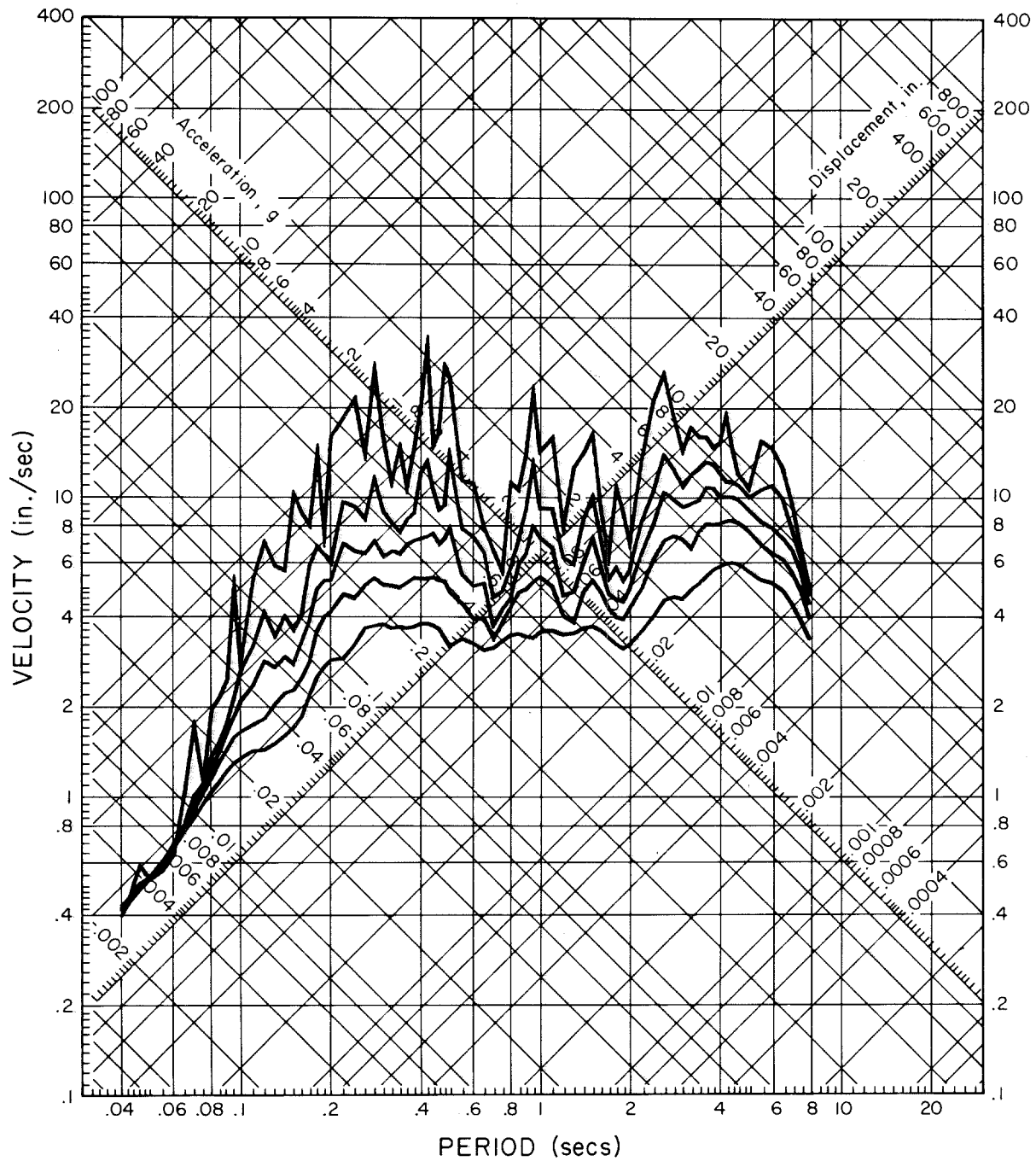


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP N40W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	106-3	254-5	121-3	162-3	400-3	273-5	108-3	175-3	430-3	272-5	103-3	174-3	427-3	269-5	974-4	172-3	422-3	264-5	914-4	170-3	414-3
0.042	495-4	291-5	148-3	168-3	435-3	304-5	116-3	176-3	455-3	302-5	112-3	175-3	453-3	298-5	105-3	174-3	446-3	293-5	100-3	171-3	439-3
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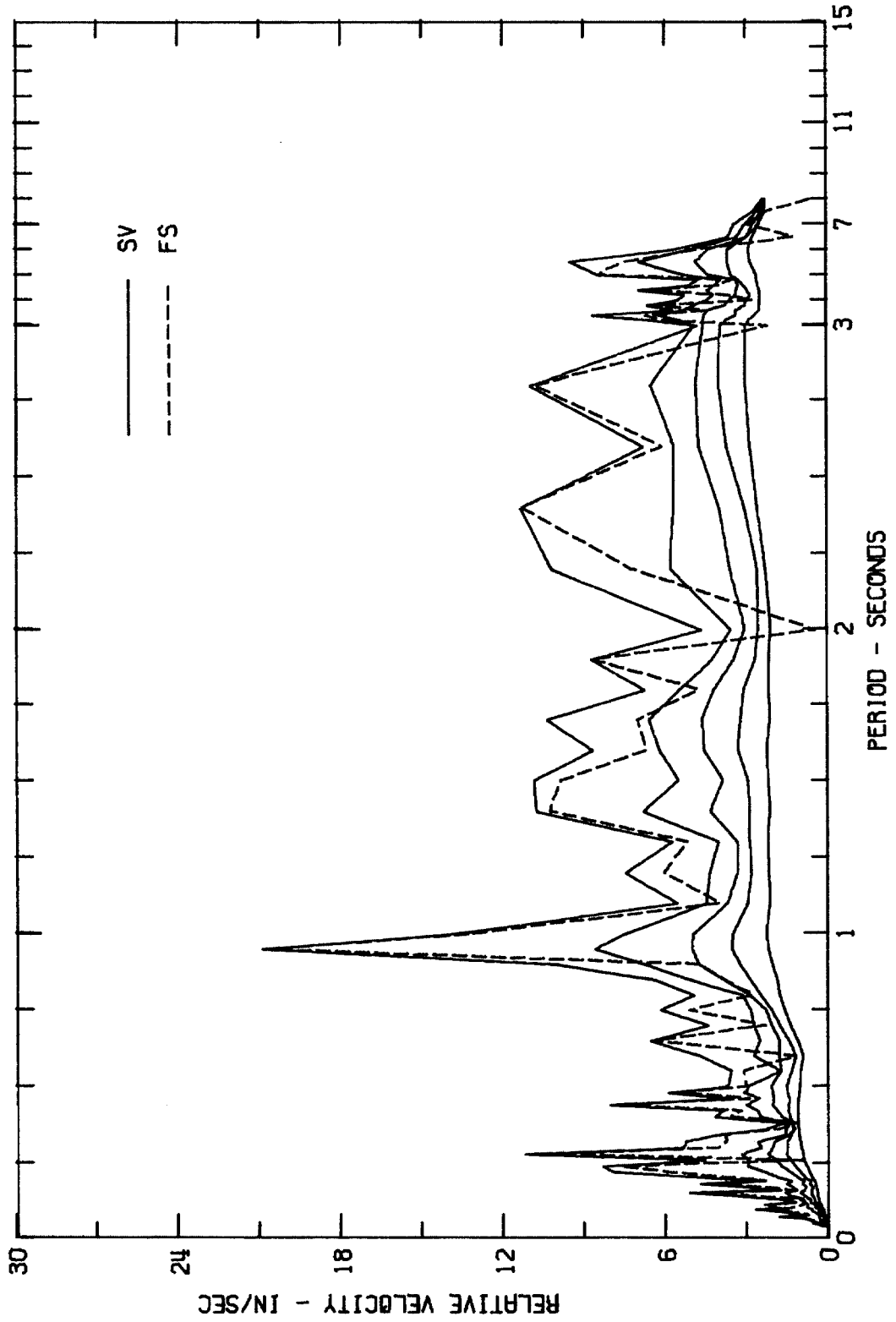
IIII131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP N40W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

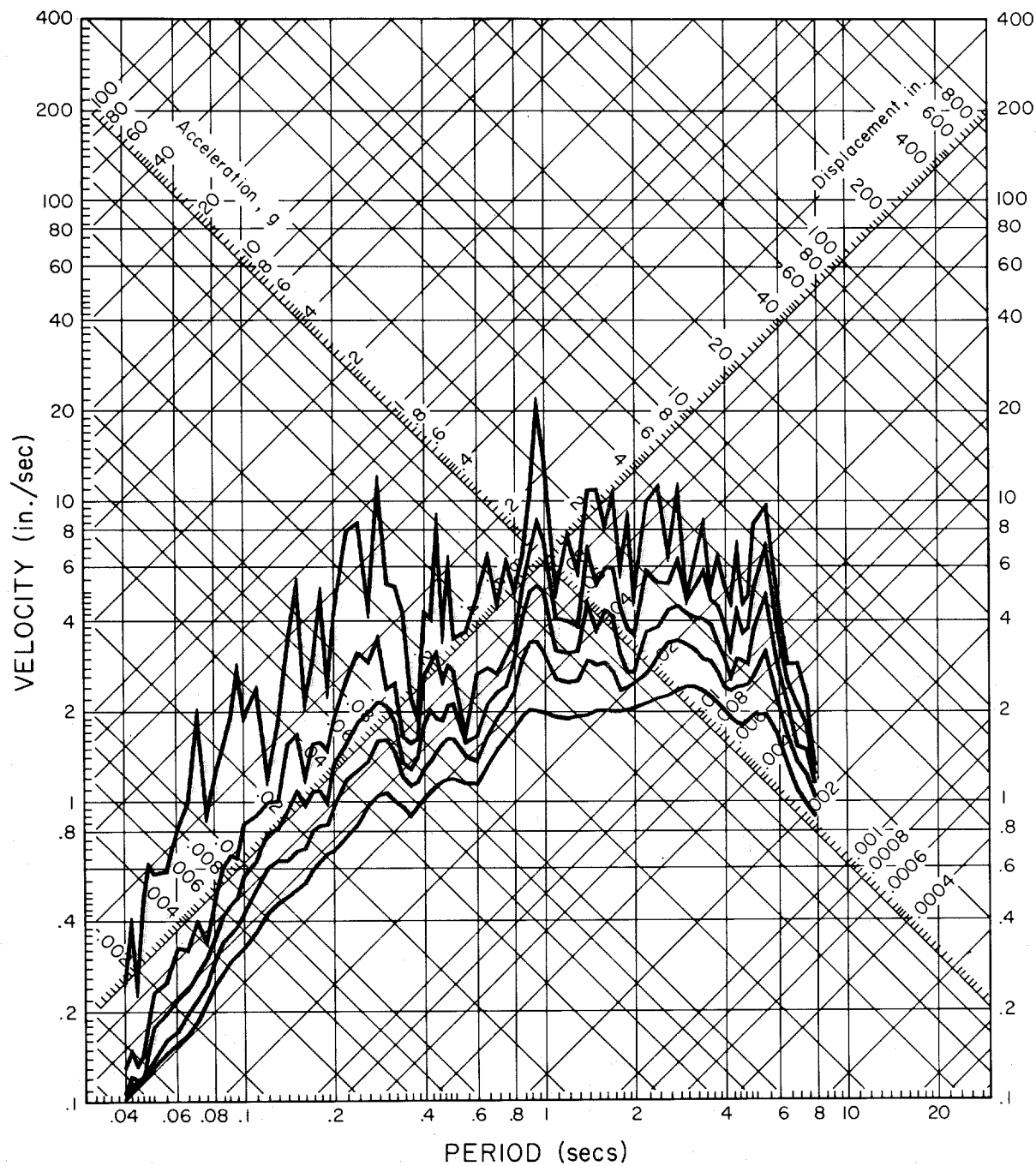
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SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111131 71.121.0 450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP DOWN  
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



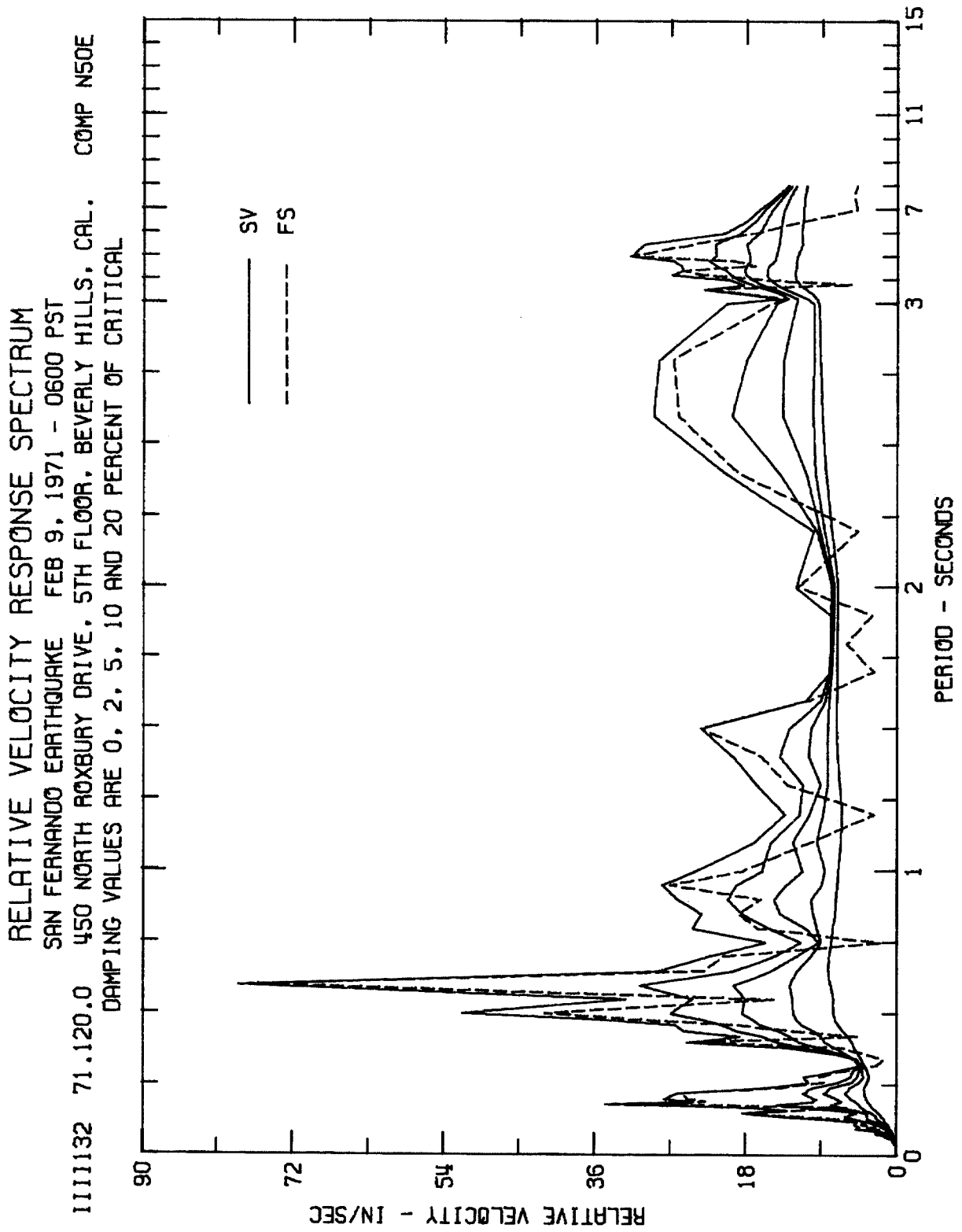
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450 NORTH ROXBURY DRIVE, FIRST FLOOR, BEVERLY HILLS, CAL. COMP CCWA

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.050	409-3	460-5	508-3	188-3	578-3	185-5	188-3	756-4	232-3	142-5	139-3	585-4	179-3	110-5	103-3	463-4	138-3
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0.075	777-3	107-4	866-3	195-3	901-3	406-5	275-3	740-4	340-3	362-5	208-3	659-4	303-3	295-5	155-3	545-4	247-3
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0.380	115-2	114-3	157-2	813-4	185-2	985-4	142-2	696-4	163-2	849-4	136-2	600-4	140-2	706-4	131-2	510-4	116-2
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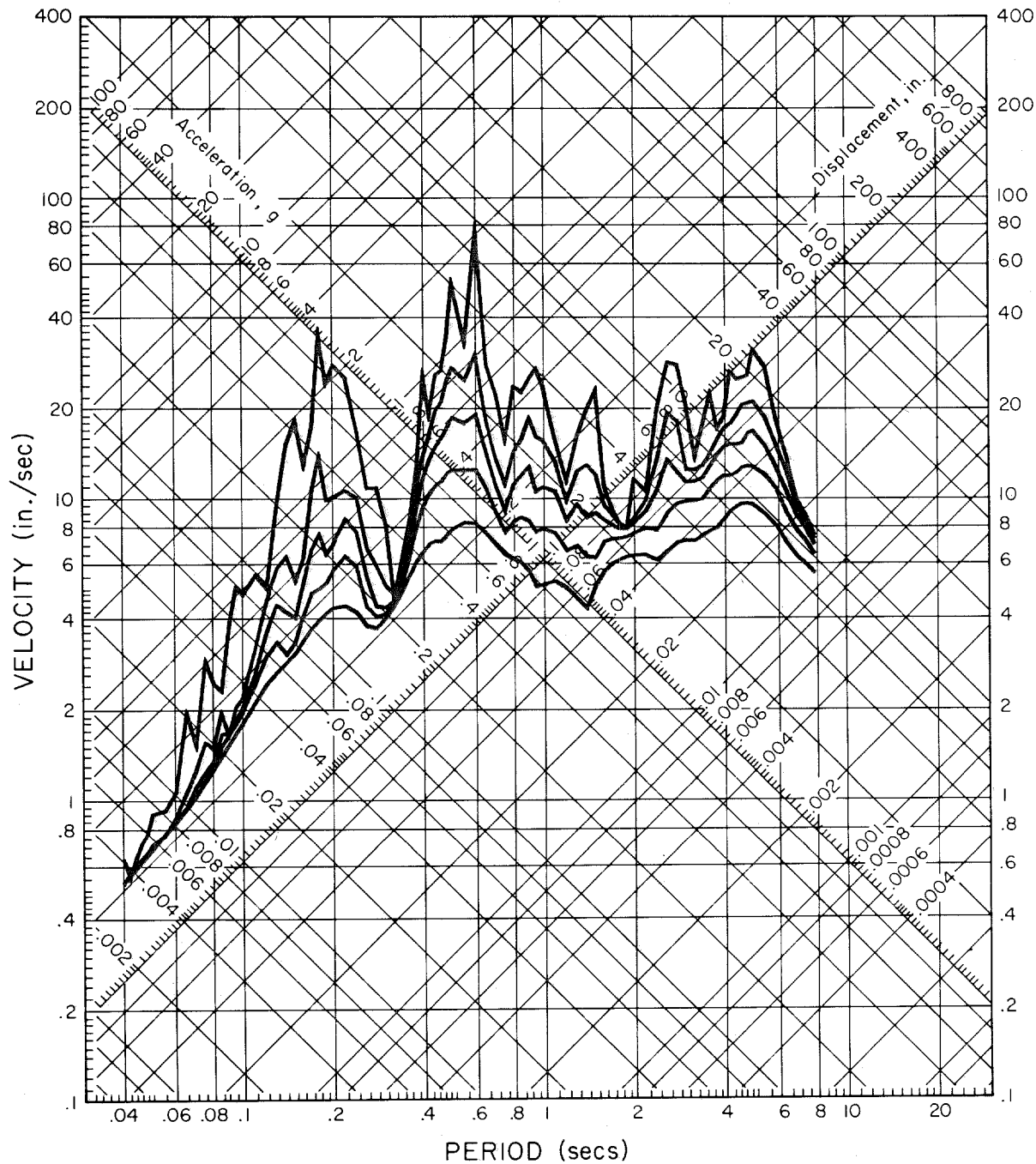


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII132 71.120.0 450 NORTH ROXBURY DRIVE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP N50E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIII1122 71.120.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
45C NORTH ROXBURY DRIVE, 5TH FLCCR, BEVERLY HILLS, CAL. COMP N50E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	174-3	406-5	233-3	259-3	637-3	336-5	113-3	215-3	529-3	337-5	104-3	215-3	530-3	339-5	105-3	218-3	532-3
0.042	159-3	367-5	190-3	213-3	550-3	383-5	128-3	222-3	574-3	379-5	121-3	219-3	564-3	376-5	116-3	219-3	563-3
0.044	111-3	453-5	236-3	239-3	647-3	430-5	141-3	227-3	614-3	422-5	131-3	223-3	603-3	419-5	129-3	221-3	598-3
0.046	165-3	526-5	251-3	254-3	719-3	467-5	153-3	225-3	638-3	464-5	144-3	225-3	635-3	462-5	140-3	223-3	632-3
0.048	256-3	591-5	360-3	262-3	774-3	513-5	164-3	228-3	672-3	512-5	166-3	227-3	670-3	508-5	159-3	225-3	665-3
0.050	443-3	719-5	533-3	294-3	903-3	568-5	241-3	232-3	714-3	561-5	205-3	229-3	705-3	555-5	185-3	227-3	698-3
0.055	393-3	815-5	473-3	275-3	931-3	668-5	317-3	226-3	763-3	674-5	282-3	227-3	770-3	678-5	253-3	229-3	775-3
0.060	680-3	103-4	809-3	293-3	108-2	849-5	407-3	241-3	889-3	823-5	358-3	233-3	862-3	818-5	320-3	232-3	857-3
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0.070	673-3	170-4	120-2	355-3	152-2	142-4	883-3	305-3	157-2	125-4	718-3	260-3	112-2	115-4	552-3	242-3	103-2
0.075	186-2	350-4	259-2	636-3	293-2	187-4	111-2	342-3	128-2	148-4	741-3	271-3	124-2	139-4	565-3	256-3	117-2
0.080	844-3	313-4	201-2	501-3	246-2	190-4	883-3	305-3	149-2	172-4	725-3	271-3	135-2	169-4	618-3	272-3	132-2
0.085	186-2	314-4	211-2	445-3	232-2	268-4	108-2	380-3	198-2	226-4	840-3	323-3	167-2	206-4	709-3	292-3	152-2
0.090	166-2	548-4	319-2	693-3	383-2	236-4	123-2	298-3	165-2	241-4	910-3	306-3	168-2	238-4	766-3	301-3	166-2
0.095	395-2	777-4	490-2	881-3	514-2	312-4	142-2	354-3	206-2	287-4	108-2	320-3	187-2	273-4	873-3	313-3	181-2
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0.110	426-2	988-4	498-2	835-3	564-2	562-4	267-2	477-3	321-2	464-4	181-2	394-3	265-2	426-4	136-2	366-3	243-2
0.120	386-2	973-4	477-2	691-3	509-2	876-4	335-2	621-3	459-2	692-4	244-2	497-3	362-2	579-4	184-2	411-3	303-2
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0.140	134-1	345-3	149-1	180-2	145-3	143-3	622-2	759-3	652-2	946-4	360-2	489-3	424-2	686-4	259-2	364-3	308-2
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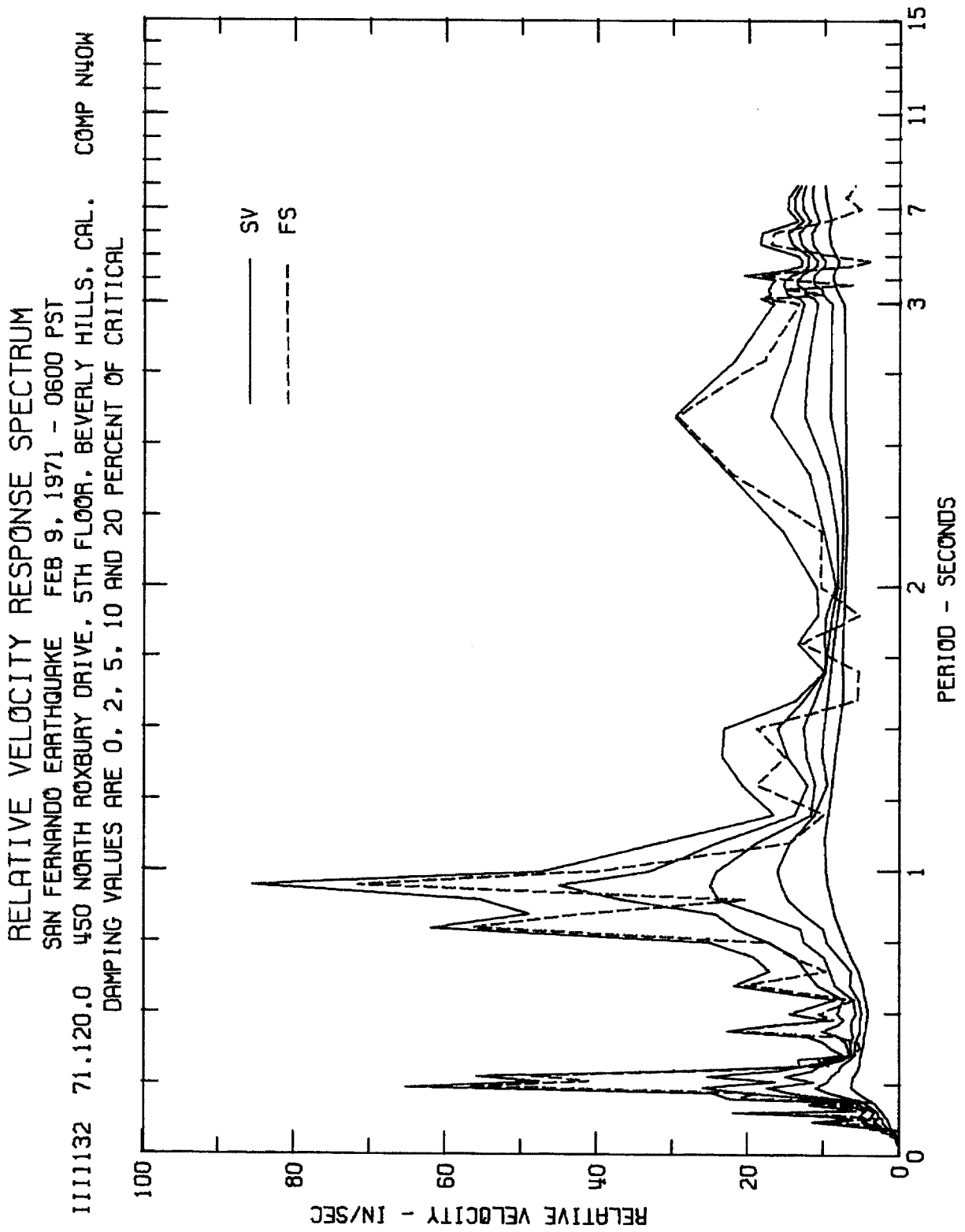
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND C FOR SA

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0.80	166-1	306-2	244-1	489-3	240-1	186-2	151-1	297-3	146-1	144-2	108-1	231-3	113-1	108-2	957-2	177-3	851-2
0.85	189-1	311-2	232-1	441-3	230-1	218-2	185-1	308-3	161-1	164-2	139-1	234-3	121-1	119-2	100-1	172-3	881-2
0.90	162-1	367-2	262-1	463-3	256-1	270-2	202-1	341-3	188-1	186-2	147-1	237-3	130-1	122-2	103-1	159-3	857-2
0.95	270-1	417-2	280-1	473-3	276-1	247-2	191-1	280-3	163-1	161-2	131-1	184-3	107-1	118-2	898-2	138-3	786-2
1.00	184-1	382-2	240-1	351-3	240-1	253-2	160-1	259-3	159-1	176-2	112-1	181-3	110-1	128-2	862-2	134-3	806-2
1.10	104-1	278-2	170-1	235-3	159-1	235-2	149-1	199-3	134-1	188-2	124-1	160-3	107-1	136-2	962-2	118-3	780-2
1.20	271-2	221-2	133-1	157-3	116-1	190-2	115-1	135-3	996-2	163-2	104-1	117-3	858-2	129-2	875-2	953-4	680-2
1.30	131-1	339-2	168-1	205-3	164-1	259-2	111-1	156-3	125-1	201-2	915-2	122-3	971-2	146-2	826-2	917-4	706-2
1.40	162-1	451-2	195-1	235-3	202-1	293-2	140-1	153-3	131-1	195-2	105-1	102-3	877-2	144-2	833-2	791-4	647-2
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2.80	267-1	126-1	283-1	164-3	283-1	818-2	179-1	106-3	183-1	552-2	135-1	725-4	123-1	436-2	996-2	591-4	978-2
3.00	148-1	993-2	202-1	112-3	207-1	604-2	143-1	688-4	126-1	552-2	120-1	631-4	115-1	474-2	995-2	560-4	994-2
3.20	135-1	707-2	141-1	706-4	138-1	645-2	130-1	645-4	126-1	591-2	118-1	595-4	116-1	508-2	108-1	522-4	998-2
3.40	180-1	979-2	180-1	866-4	181-1	708-2	139-1	626-4	130-1	645-2	132-1	571-4	119-1	548-2	121-1	493-4	101-1
3.60	228-1	130-1	232-1	103-3	228-1	831-2	155-1	656-4	145-1	750-2	147-1	595-4	142-1	630-2	133-1	508-4	110-1
3.80	539-2	105-1	182-1	147-4	174-1	973-2	174-1	689-4	160-1	862-2	162-1	615-4	142-1	707-2	144-1	516-4	117-1
4.00	160-1	122-1	202-1	780-4	191-1	110-1	190-1	709-4	174-1	962-2	174-1	620-4	151-1	771-2	152-1	507-4	121-1
4.20	232-1	180-1	270-1	104-3	269-1	120-1	199-1	699-4	180-1	103-1	180-1	602-4	154-1	808-2	156-1	486-4	120-1
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4.80	196-1	200-1	268-1	889-4	262-1	161-1	225-1	718-4	211-1	128-1	176-1	573-4	167-1	998-2	146-1	462-4	130-1
5.00	318-1	253-1	313-1	103-3	318-1	170-1	216-1	699-4	214-1	136-1	177-1	559-4	171-1	103-1	144-1	441-4	129-1
5.50	243-1	243-1	301-1	823-4	278-1	165-1	217-1	560-4	189-1	132-1	180-1	452-4	151-1	106-1	140-1	369-4	122-1
6.00	168-1	173-1	204-1	493-4	182-1	144-1	187-1	411-4	151-1	121-1	164-1	350-4	127-1	103-1	139-1	309-4	108-1
6.50	110-1	143-1	178-1	346-4	138-1	128-1	169-1	311-4	124-1	110-1	156-1	269-4	106-1	938-2	137-1	241-4	907-2
7.00	473-2	111-1	164-1	233-4	100-1	106-1	157-1	223-4	955-2	991-2	148-1	212-4	890-2	886-2	134-1	198-4	795-2
7.50	512-2	105-1	146-1	192-4	887-2	101-1	142-1	186-4	852-2	960-2	137-1	181-4	804-2	874-2	128-1	174-4	732-2
8.00	472-2	978-2	129-1	156-4	768-2	949-2	128-1	152-4	745-2	908-2	125-1	151-4	713-2	843-2	120-1	151-4	662-2

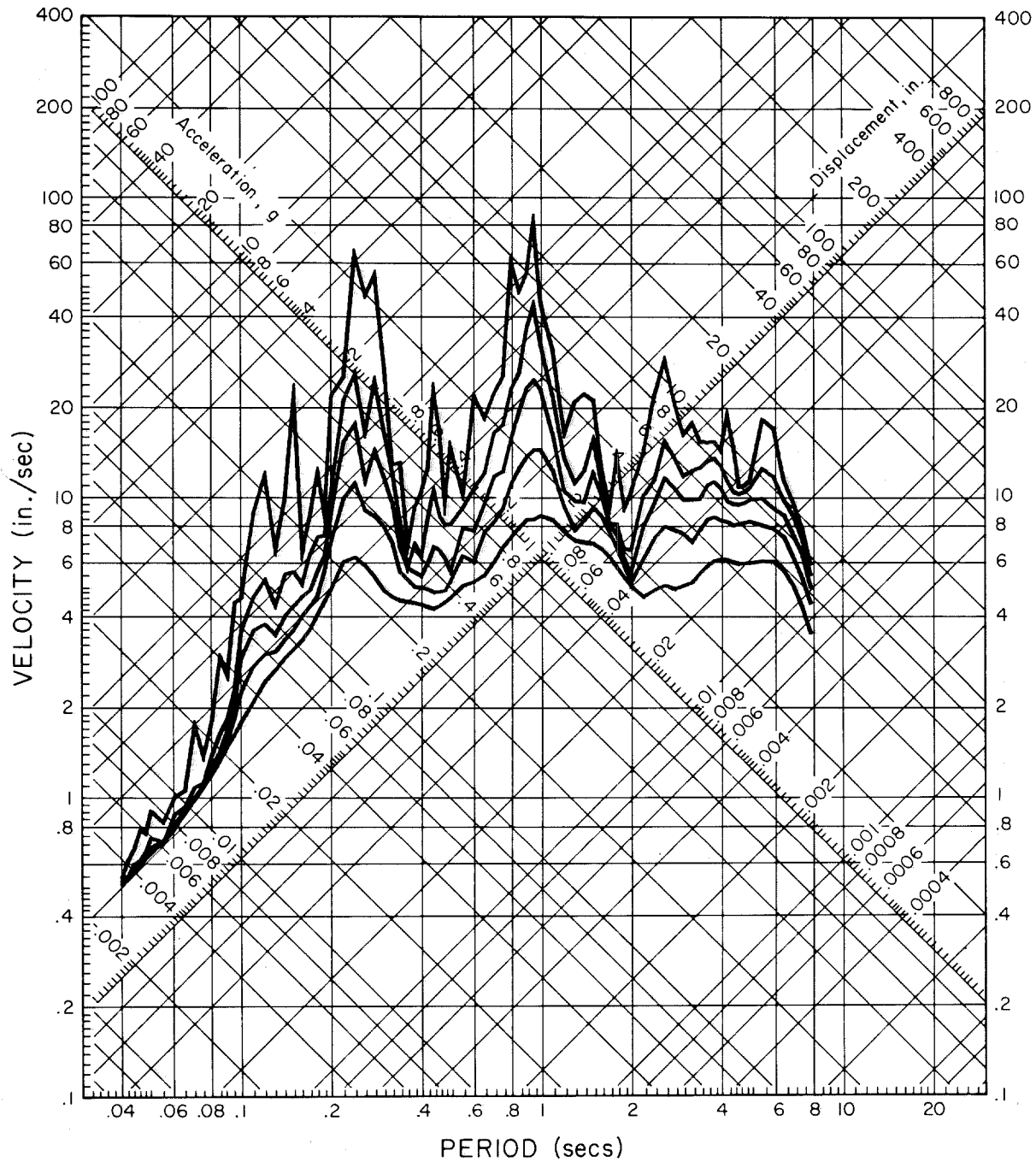


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII132 71.120.0 450 NORTH ROXBURY DRIVE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP N40W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



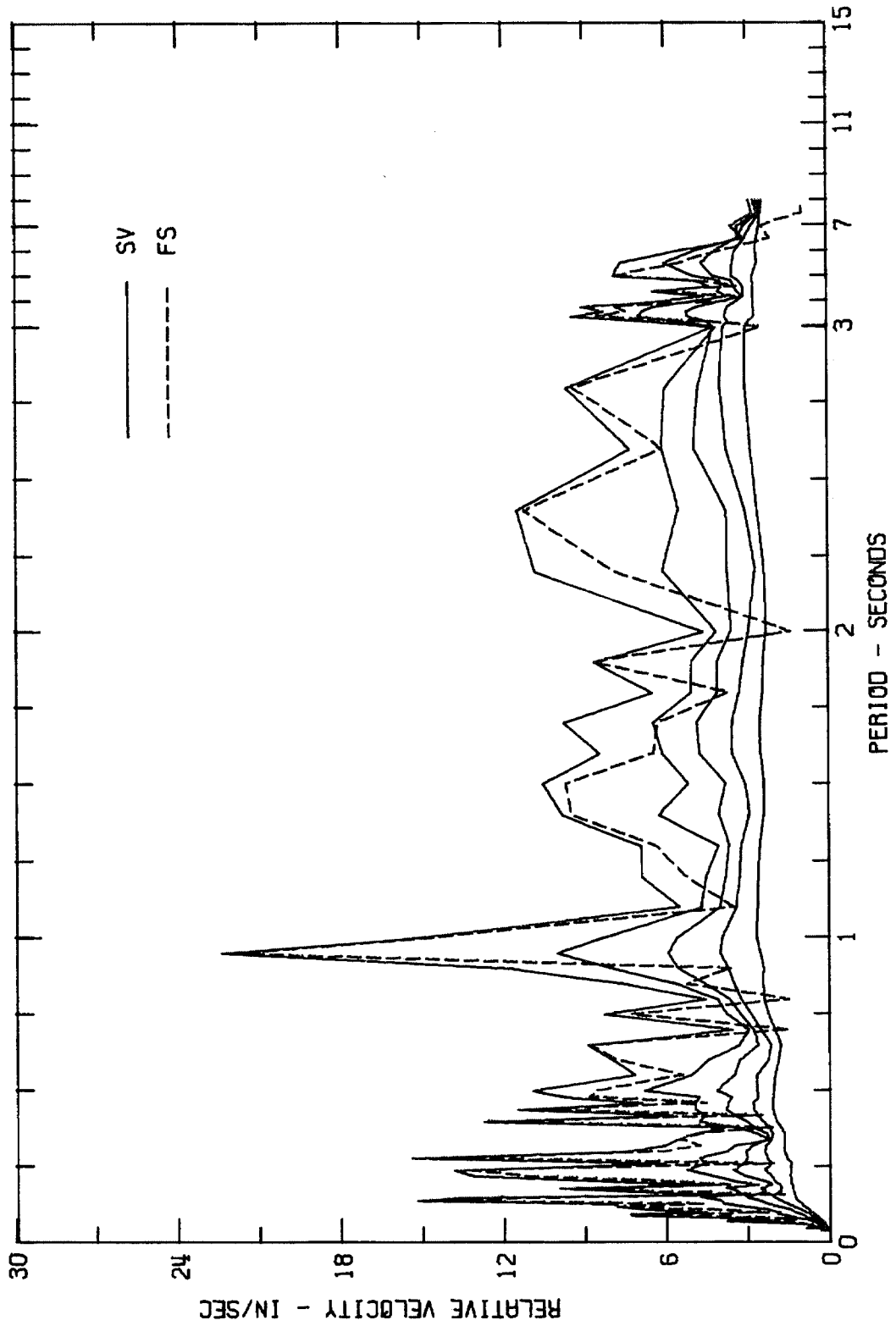
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.040	128-4	346-5	163-3	221-3	544-3	335-5	133-3	214-3	526-3	329-5	121-3	210-3	517-3	327-5	114-3	209-3	514-3	328-5	110-3	209-3	515-3
0.042	840-4	415-5	206-3	240-3	621-3	369-5	133-3	214-3	552-3	368-5	134-3	213-3	551-3	363-5	128-3	211-3	544-3	363-5	124-3	211-3	543-3
0.044	774-4	480-5	222-3	253-3	685-3	424-5	171-3	224-3	605-3	411-5	154-3	217-3	588-3	404-5	146-3	213-3	577-3	401-5	140-3	212-3	572-3
0.046	203-3	580-5	284-3	279-3	789-3	453-5	171-3	219-3	619-3	453-5	172-3	219-3	618-3	446-5	166-3	215-3	609-3	440-5	157-3	213-3	602-3
0.048	253-3	583-5	368-3	258-3	763-3	510-5	208-3	226-3	667-3	501-5	200-3	222-3	655-3	488-5	189-3	217-3	639-3	481-5	176-3	214-3	630-3
0.050	188-3	724-5	410-3	296-3	910-3	587-5	281-3	240-3	738-3	547-5	238-3	223-3	688-3	529-5	212-3	217-3	665-3	523-5	196-3	215-3	657-3
0.055	987-4	733-5	406-3	247-3	837-3	626-5	311-3	211-3	715-3	627-5	290-3	211-3	716-3	625-5	271-3	211-3	714-3	635-5	246-3	215-3	726-3
0.060	120-3	967-5	501-3	274-3	849-5	649-5	413-3	241-3	889-3	790-5	371-3	225-3	827-3	761-5	335-3	217-3	797-3	769-5	303-3	219-3	805-3
0.065	412-3	110-4	567-3	267-3	106-2	976-5	482-3	236-3	943-3	950-5	421-3	230-3	918-3	937-5	393-3	227-3	906-3	927-5	367-3	226-3	896-3
0.070	105-2	198-4	121-2	413-3	177-2	121-4	514-3	253-3	109-2	112-4	450-3	234-3	100-2	112-4	445-3	233-3	100-2	110-4	436-3	233-3	992-3
0.075	433-3	165-4	103-2	300-3	138-2	135-4	608-3	245-3	113-2	132-4	565-3	241-3	110-2	132-4	546-3	241-3	111-2	131-4	522-3	241-3	109-2
0.080	133-2	236-4	152-2	371-3	185-2	180-4	764-3	288-3	141-2	164-4	705-3	264-3	129-2	159-4	660-3	255-3	125-2	155-4	622-3	251-3	121-2
0.085	794-3	401-4	232-2	569-3	297-2	224-4	114-2	318-3	166-2	194-4	953-3	275-3	143-2	189-4	802-3	268-3	140-2	182-4	738-3	263-3	135-2
0.090	134-3	366-4	190-2	463-3	256-2	268-4	127-2	340-3	187-2	246-4	112-2	309-3	171-2	227-4	998-3	288-3	158-2	214-4	866-3	275-3	149-2
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0.100	237-2	745-3	392-2	762-3	468-2	577-4	307-2	596-3	363-2	466-4	230-2	474-3	292-2	360-4	164-2	378-3	226-2	288-4	114-2	299-3	181-2
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0.140	665-2	224-3	974-2	117-2	100-1	125-3	522-2	658-3	564-2	912-4	376-2	478-3	409-2	760-4	289-2	390-3	341-2	659-4	197-2	356-3	296-2
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0.160	562-2	167-3	649-2	668-3	657-2	132-3	430-2	527-3	518-2	120-3	343-2	484-3	474-2	104-3	316-2	422-3	408-2	863-4	249-2	360-3	339-2
0.170	634-2	244-3	797-2	866-3	904-2	177-3	567-2	626-3	657-2	134-3	450-2	473-3	497-2	119-3	378-2	422-3	440-2	998-4	281-2	367-3	368-2
0.180	930-2	355-3	119-1	112-2	124-1	214-3	659-2	678-3	749-2	165-3	552-2	522-3	577-2	136-3	432-2	433-3	476-2	118-3	310-2	389-3	412-2
0.190	378-2	267-3	828-2	758-3	885-2	229-3	731-2	649-3	757-2	196-3	595-2	557-3	648-2	174-3	469-2	502-3	577-2	138-3	367-2	412-3	457-2
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0.240	570-1	251-2	653-1	447-2	659-1	100-2	260-1	179-2	263-1	688-3	175-1	122-2	180-1	433-3	111-1	766-3	113-1	245-3	631-2	474-3	642-2
0.260	410-1	197-2	475-1	299-2	477-1	691-3	162-1	104-2	167-1	473-3	112-1	732-3	114-1	380-3	942-2	575-3	918-2	248-3	626-2	405-3	601-2
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0.300	250-1	133-2	282-1	151-2	278-1	804-3	158-1	914-3	168-1	564-3	114-1	643-3	118-1	387-3	804-2	430-3	812-2	236-3	551-2	291-3	496-2
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0.380	519-2	569-3	917-2	403-3	942-2	430-3	666-2	303-3	711-2	346-3	643-2	248-3	572-2	307-3	571-2	222-3	508-2	272-3	487-2	210-3	450-2
0.400	547-2	677-3	100-1	433-3	106-1	408-3	110-2	260-3	641-2	353-3	644-2	230-3	554-2	322-3	582-2	213-3	507-2	283-3	468-2	198-3	444-2
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0.480	871-2	736-3	934-2	326-3	964-2	628-3	733-2	279-3	823-2	483-3	625-2	216-3	632-2	378-3	513-2	169-3	495-2	346-3	424-2	169-3	454-2
0.500	106-1	120-2	145-1	492-3	151-1	658-3	820-2	269-3	827-2	454-3	574-2	187-3	571-2	426-3	491-2	177-3	535-2	374-3	417-2	169-3	470-2
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0.600	204-1	212-2	219-1	604-3	222-1	104-2	108-1	297-3	109-1	753-3	856-2	215-3	788-2	591-3	654-2	173-3	619-2	483-2	581-3	161-3	531-2
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0.700	141-1	254-2	193-1	530-3	228-1	187-2	137-1	389-3	168-1	133-2	100-1	278-3	119-1	942-3	604-2	202-3	846-2	92-3	640-2	155-3	621-2

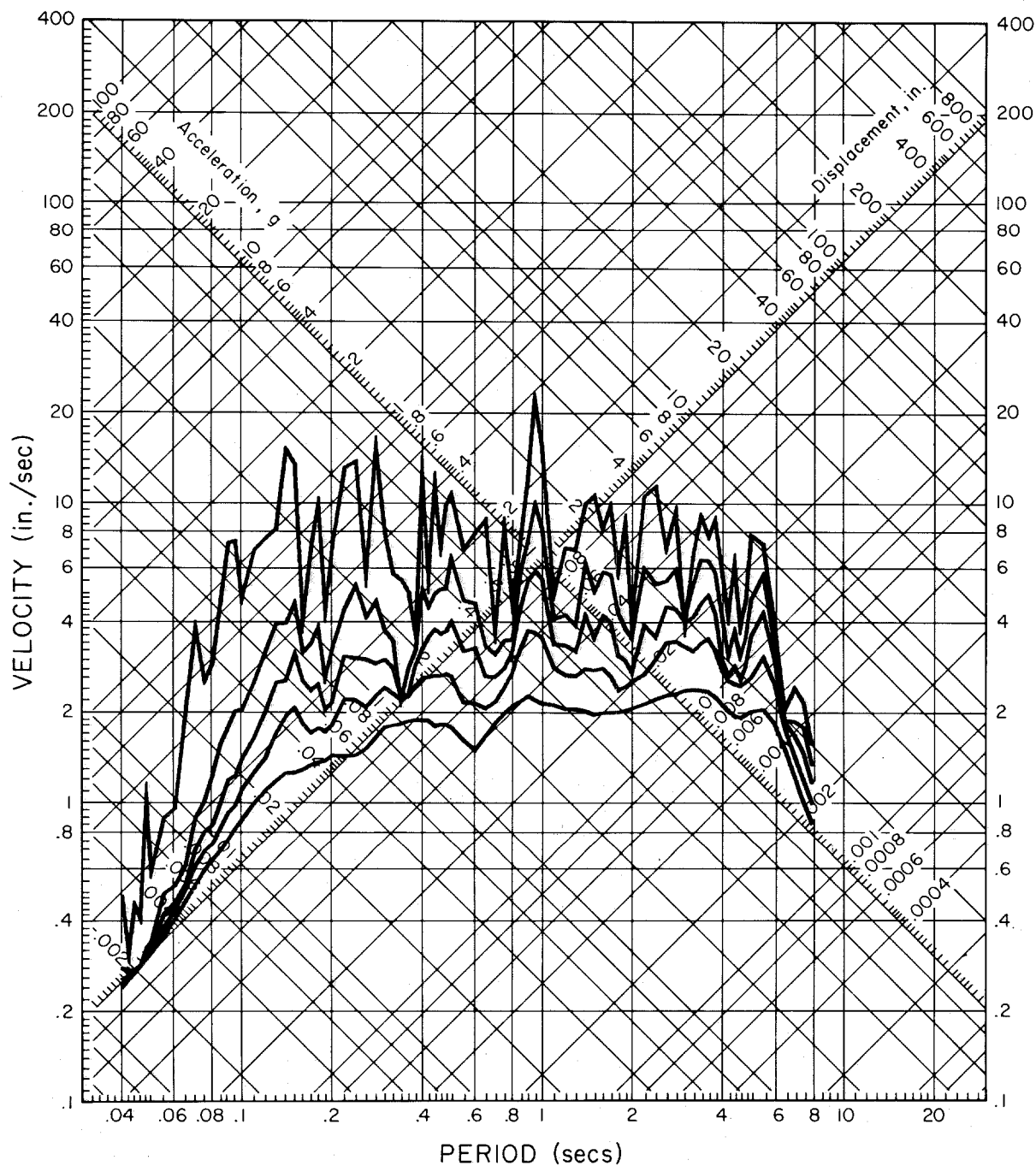
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.75	172-1	310-2	252-1	565-3	260-1	213-2	173-1	388-3	179-1	148-2	126-1	271-3	124-1	112-2	962-2	207-3	940-2	830-3	722-2	162-3	695-2
0.80	563-1	791-2	620-1	126-2	621-1	301-2	217-1	480-3	236-1	205-2	131-1	330-3	161-1	144-2	101-1	237-3	113-1	959-3	795-2	166-3	753-2
0.85	415-1	670-2	489-1	948-3	495-1	363-2	243-1	515-3	268-1	269-2	182-1	383-3	199-1	173-2	127-1	251-3	128-1	109-2	862-2	169-3	806-2
0.90	204-1	816-2	555-1	103-2	569-1	536-2	368-1	676-3	374-1	340-2	239-1	431-3	237-1	199-2	147-1	256-3	139-1	122-2	907-2	173-3	858-2
0.95	716-1	128-1	856-1	145-2	648-1	676-2	451-1	766-3	447-1	380-2	250-1	433-3	251-1	222-2	156-1	256-3	146-1	130-2	959-2	167-3	860-2
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1.10	144-1	552-2	316-1	466-3	315-1	386-2	240-1	326-3	220-1	287-2	188-1	244-3	164-1	217-2	144-1	187-3	124-1	149-2	992-2	137-3	855-2
1.20	993-2	316-2	165-1	224-3	165-1	262-2	137-1	186-3	137-1	204-2	116-1	146-3	106-1	181-2	111-1	131-3	949-2	148-2	936-2	114-3	779-2
1.30	189-1	440-2	208-1	266-3	212-1	234-2	121-1	142-3	113-1	204-2	111-1	124-3	989-2	163-2	958-2	100-3	788-2	150-2	882-2	991-4	729-2
1.40	150-1	503-2	234-1	262-3	226-1	279-2	148-1	145-3	125-1	219-2	123-1	114-3	983-2	190-2	102-1	101-3	854-2	160-2	841-2	910-4	718-2
1.50	188-1	514-2	231-1	233-3	215-1	382-2	161-1	173-3	160-1	294-2	127-1	134-3	123-1	225-2	998-2	105-3	944-2	169-2	799-2	848-4	711-2
1.60	558-2	321-2	136-1	128-3	126-1	285-2	126-1	114-3	112-1	261-2	111-1	105-3	102-1	223-2	941-2	925-4	876-2	173-2	748-2	774-4	683-2
1.70	530-2	252-2	997-2	892-4	932-2	225-2	981-2	797-4	832-2	224-2	976-2	805-4	831-2	208-2	902-2	771-4	770-2	173-2	751-2	694-4	639-2
1.80	129-1	402-2	134-1	127-3	140-1	237-2	957-2	749-4	827-2	216-2	938-2	689-4	754-2	196-2	862-2	651-4	685-2	169-2	742-2	619-4	591-2
1.90	517-2	281-2	107-1	791-4	930-2	207-2	969-2	587-4	684-2	191-2	883-2	549-4	634-2	181-2	811-2	543-4	600-2	166-2	726-2	554-4	549-2
2.00	104-1	333-2	110-1	853-4	104-1	215-2	848-2	552-4	677-2	180-2	814-2	462-4	567-2	168-2	764-2	457-4	527-2	163-2	712-2	501-4	513-2
2.20	103-1	501-2	155-1	105-3	143-1	360-2	101-1	762-4	103-1	283-2	839-2	601-4	808-2	222-2	744-2	479-4	634-2	165-2	699-2	430-4	473-2
2.40	222-1																				

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111132 71.120.0 450 NORTH ROXBURY DRIVE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
 450 NORTH ROXBURY DRIVE, 5TH FLOOR, BEVERLY HILLS, CAL. COMP DCWN

IIII132 71.120.0

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.042	143-3	205-5	199-3	119-3	308-3	183-5	103-3	106-3	273-3	176-5	950-4	102-3	264-3	173-5	871-4	100-3	259-3
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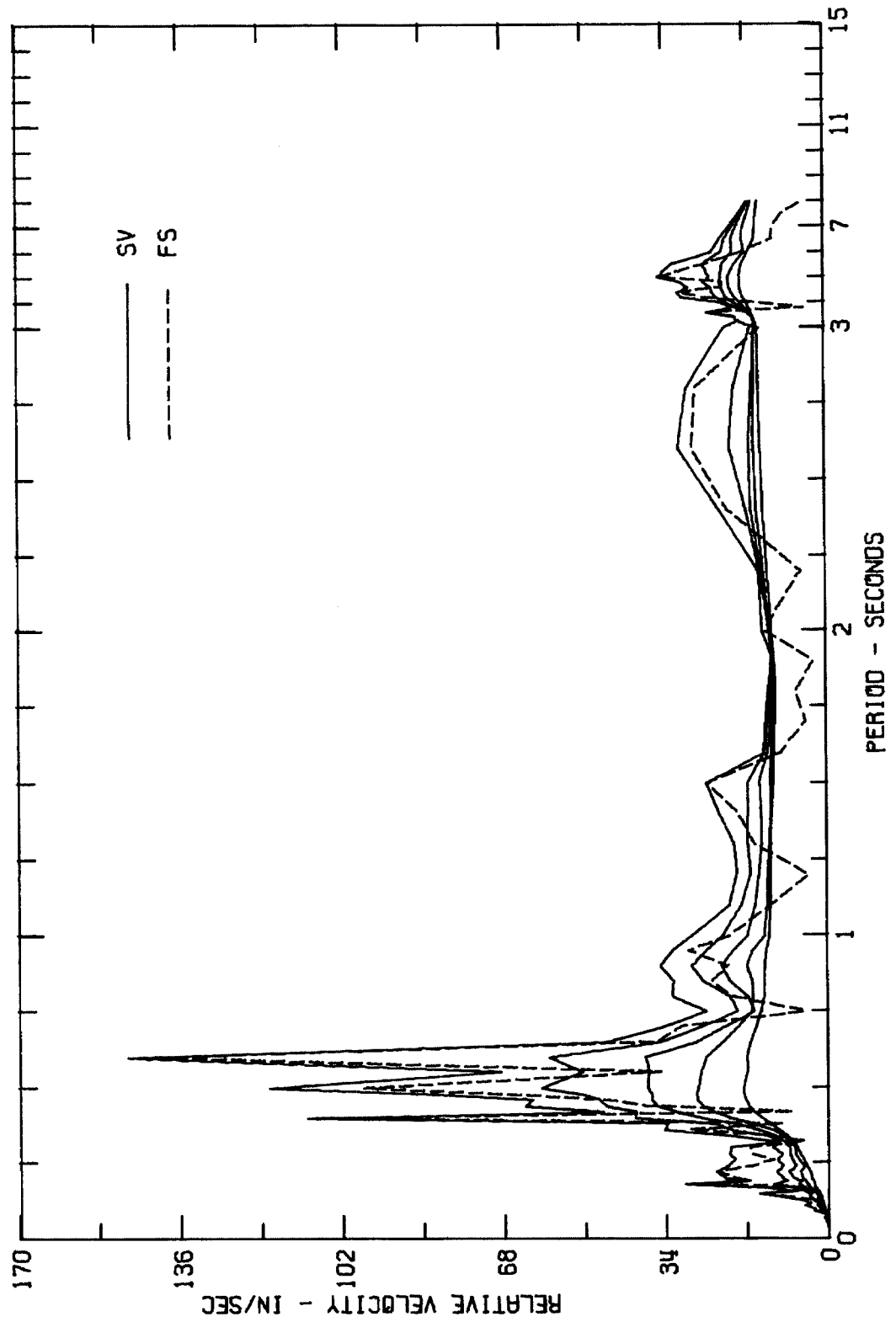
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

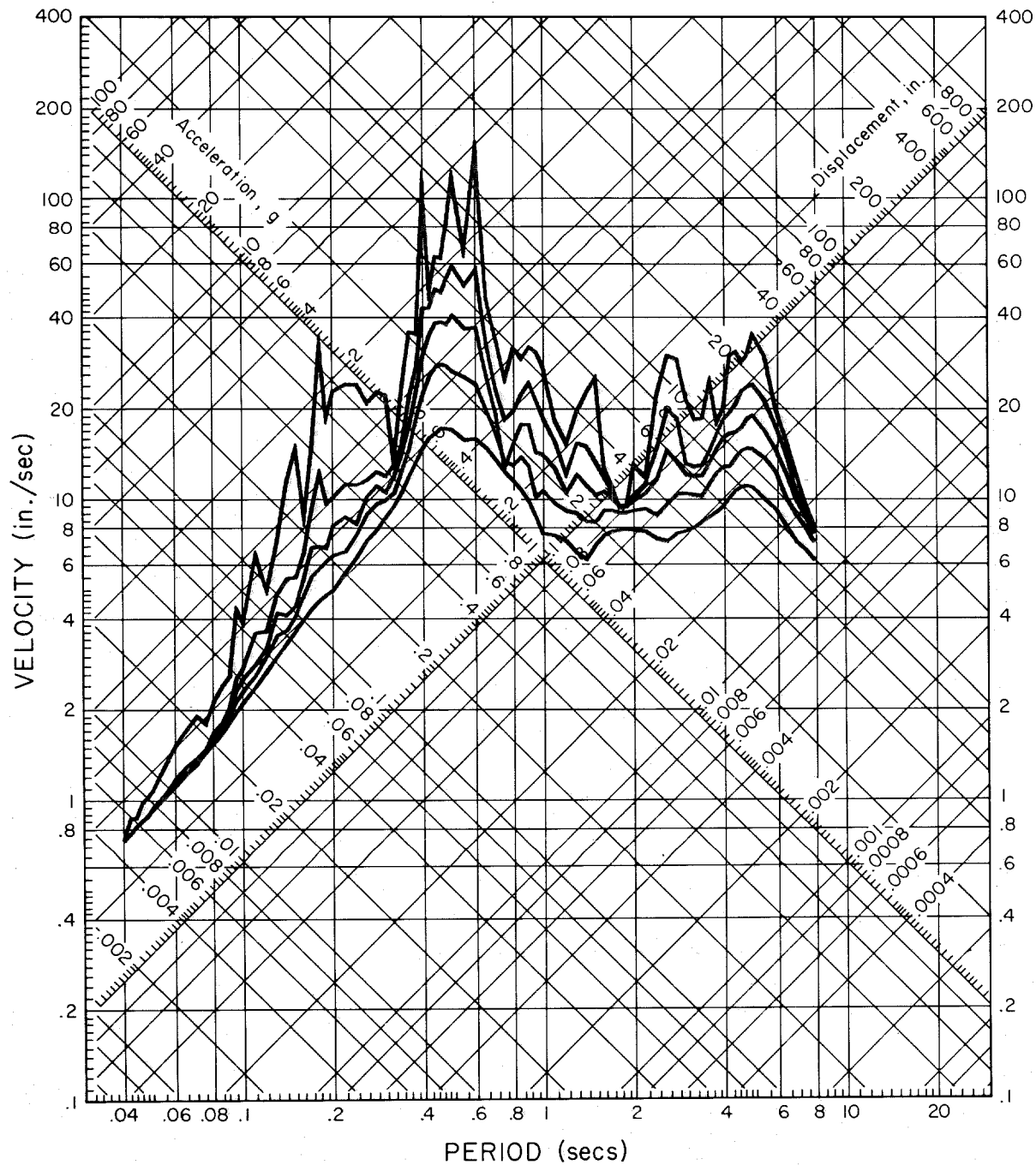


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII133 71.122.0 450 NORTH ROXBURY DRIVE, 10TH FLOOR, BEVERLY HILLS, CAL. COMP N50E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



III11133 71.122.0 45C NORTH ROXBURY DRIVE, 10TH FLOR, BEVERLY HILLS, CAL. COMP N50E  
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND G FOR SA

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0.046	206-3	710-5	248-3	343-3	570-3	617-5	170-3	298-3	843-3	615-5	172-3	297-3	840-3	616-5	175-3	298-3	843-3
0.048	161-3	778-5	271-3	345-3	101-2	668-5	228-3	297-3	875-3	673-5	205-3	298-3	880-3	674-5	193-3	299-3	882-3
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0.055	350-3	114-4	443-3	387-3	130-2	911-5	223-3	308-3	104-2	909-5	315-3	307-3	103-2	899-5	293-3	304-3	102-2
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

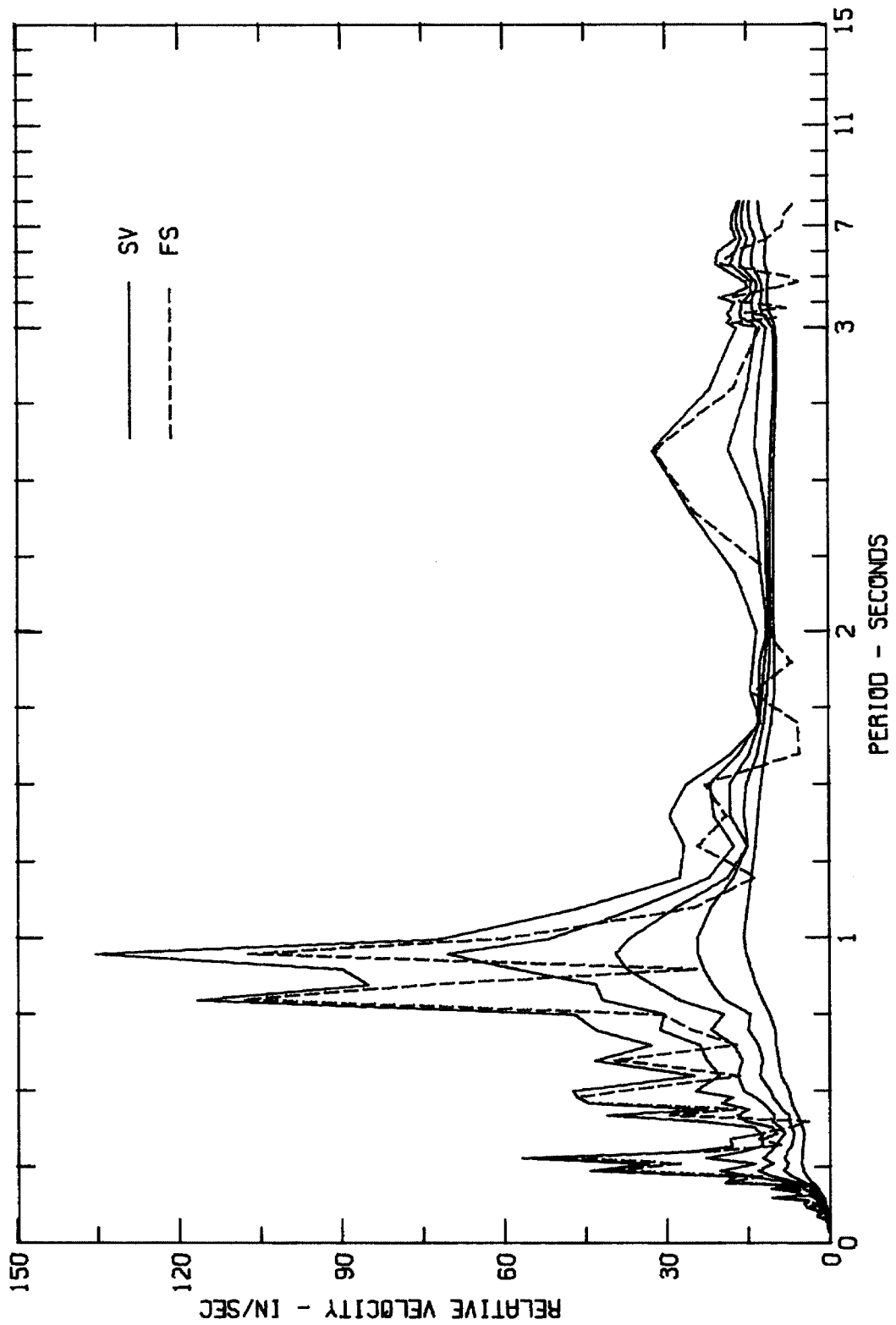
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# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII133 71.122.0 450 NORTH ROXBURY DRIVE, 10TH FLOOR, BEVERLY HILLS, CAL.  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

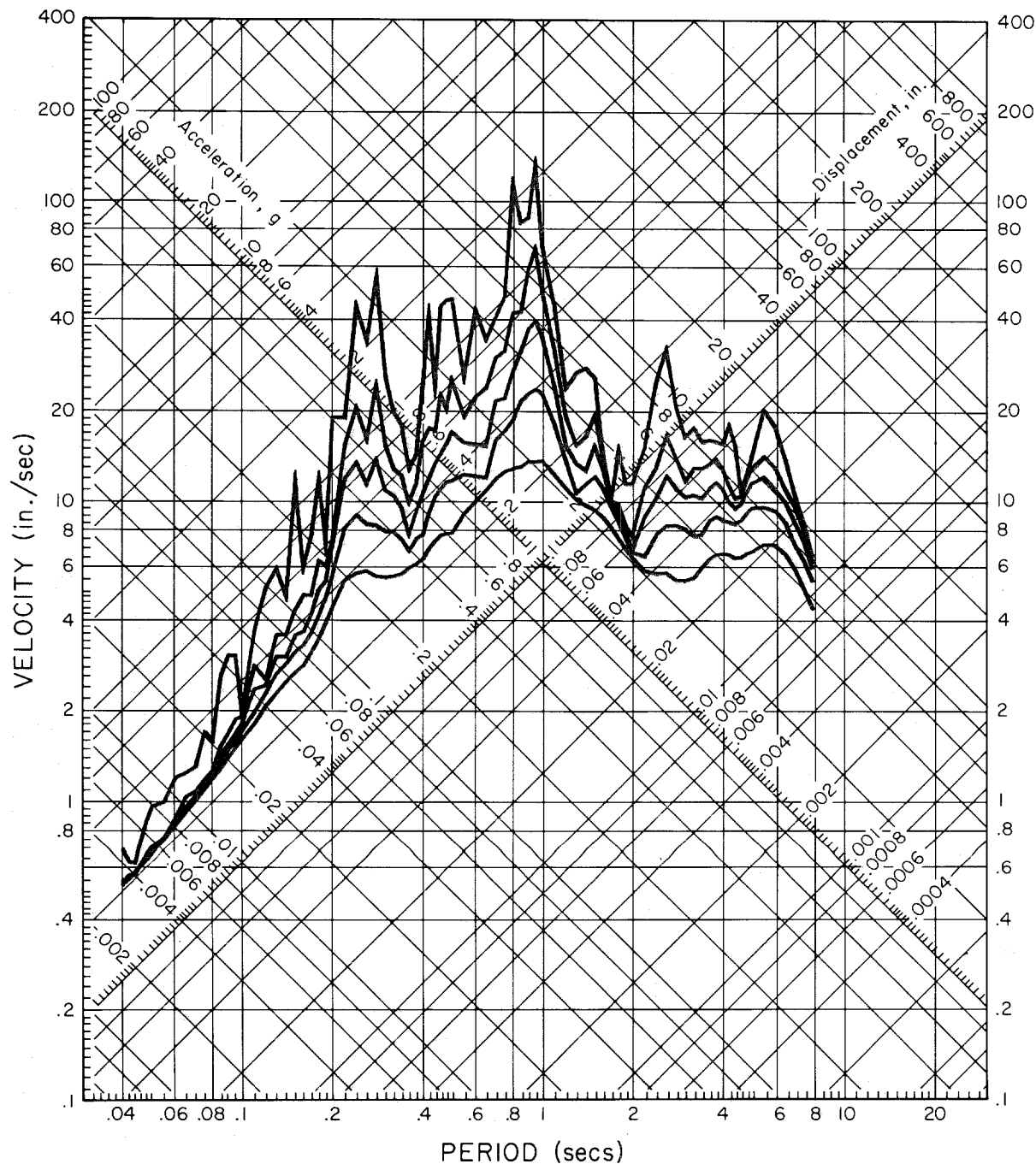


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII133 71.122.0 450 NORTH ROXBURY DRIVE, 10TH FLOOR, BEVERLY HILLS, CAL. COMP N40W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



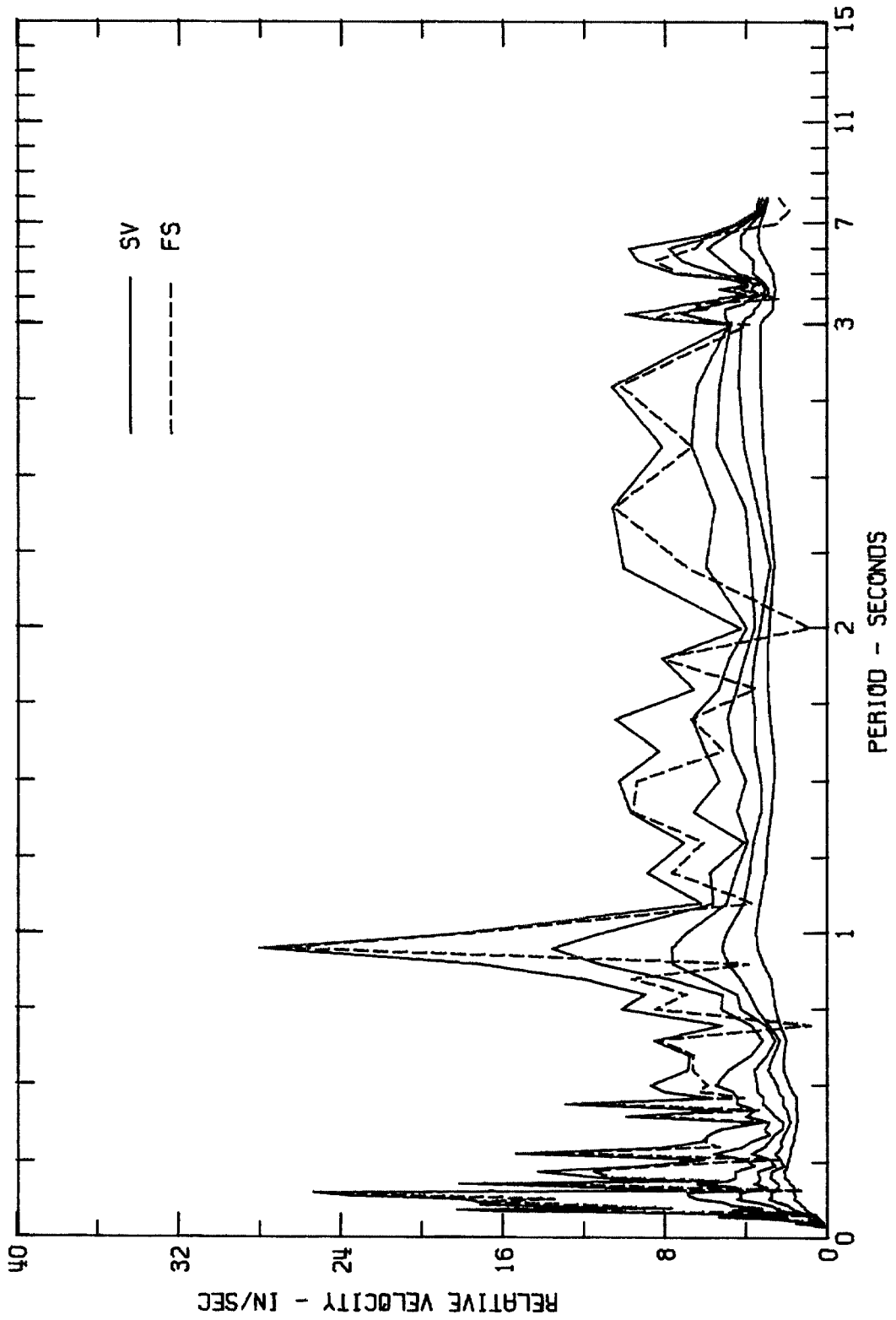




THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.75	309-1	577-2	471-1	105-2	484-1	380-2	305-1	691-3	319-1	265-2	195-1	486-3	222-1	207-2	146-1	385-3	173-1
0.80	108 0	149-1	116 0	238-2	117 0	542-2	420-1	867-3	426-1	347-2	279-1	558-3	273-1	241-2	195-1	391-3	189-1
0.85	736-1	116-1	850-1	164-2	857-1	582-2	432-1	824-3	430-1	432-2	329-1	614-3	319-1	295-2	216-1	427-3	218-1
0.90	244-1	128-1	901-1	162-2	857-1	855-2	580-1	108-2	597-1	542-2	375-1	686-3	378-1	330-2	233-1	424-3	230-1
0.95	107 0	203-1	135 0	230-2	134 0	106-1	707-1	120-2	702-1	604-2	395-1	688-3	399-1	359-2	243-1	416-3	237-1
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111133 71.122.0 450 NORTH ROXBURY DRIVE, 10TH FLOOR, BEVERLY HILLS, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

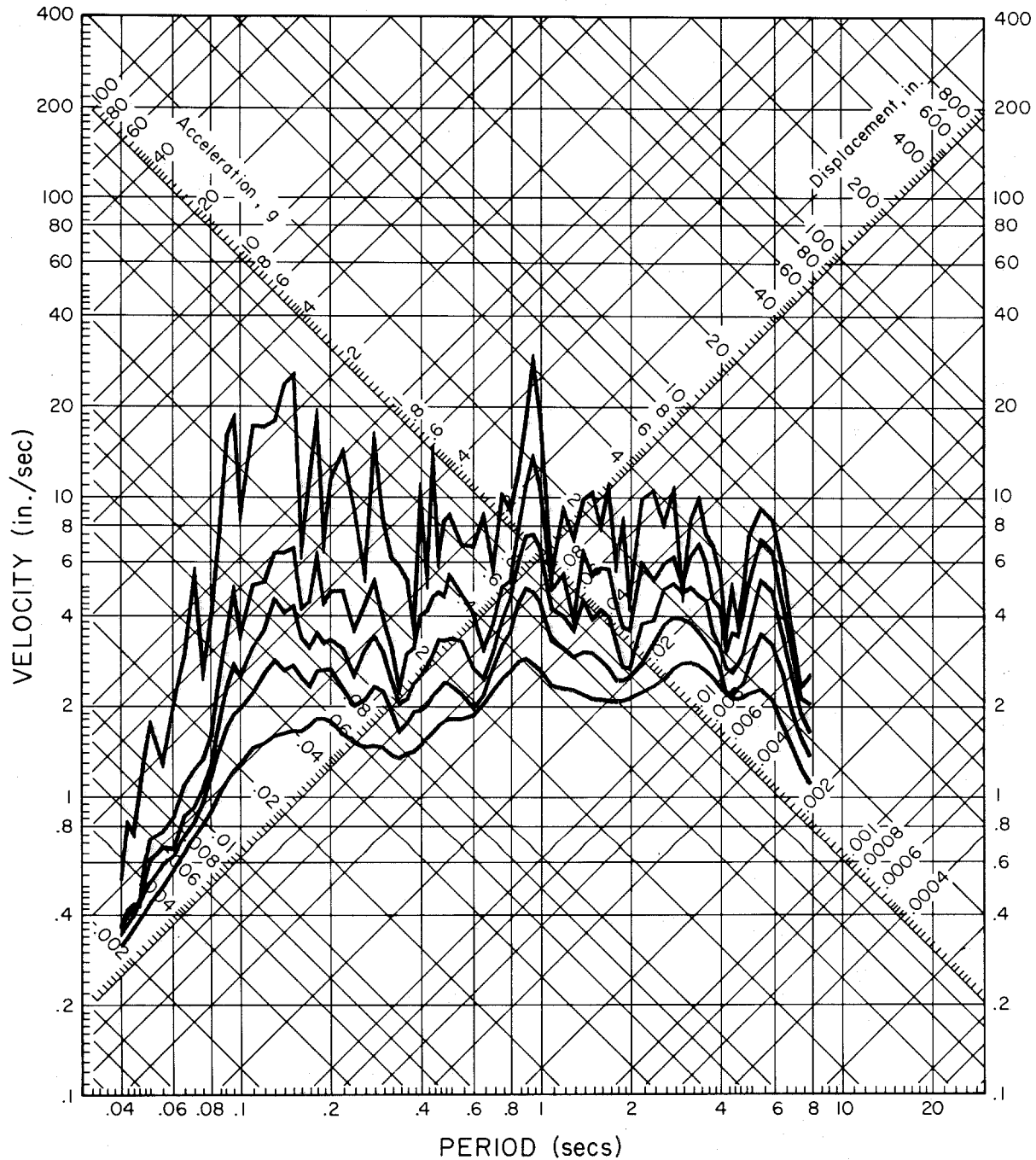


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII133 71.122.0 450 NORTH ROXBURY DRIVE, 10TH FLOOR, BEVERLY HILLS, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL





THE UNITS USED ARE SEC FOR PER, IN/SEC FCR FS, SV, AND PSV, IN FOR SD AND G FOR SA

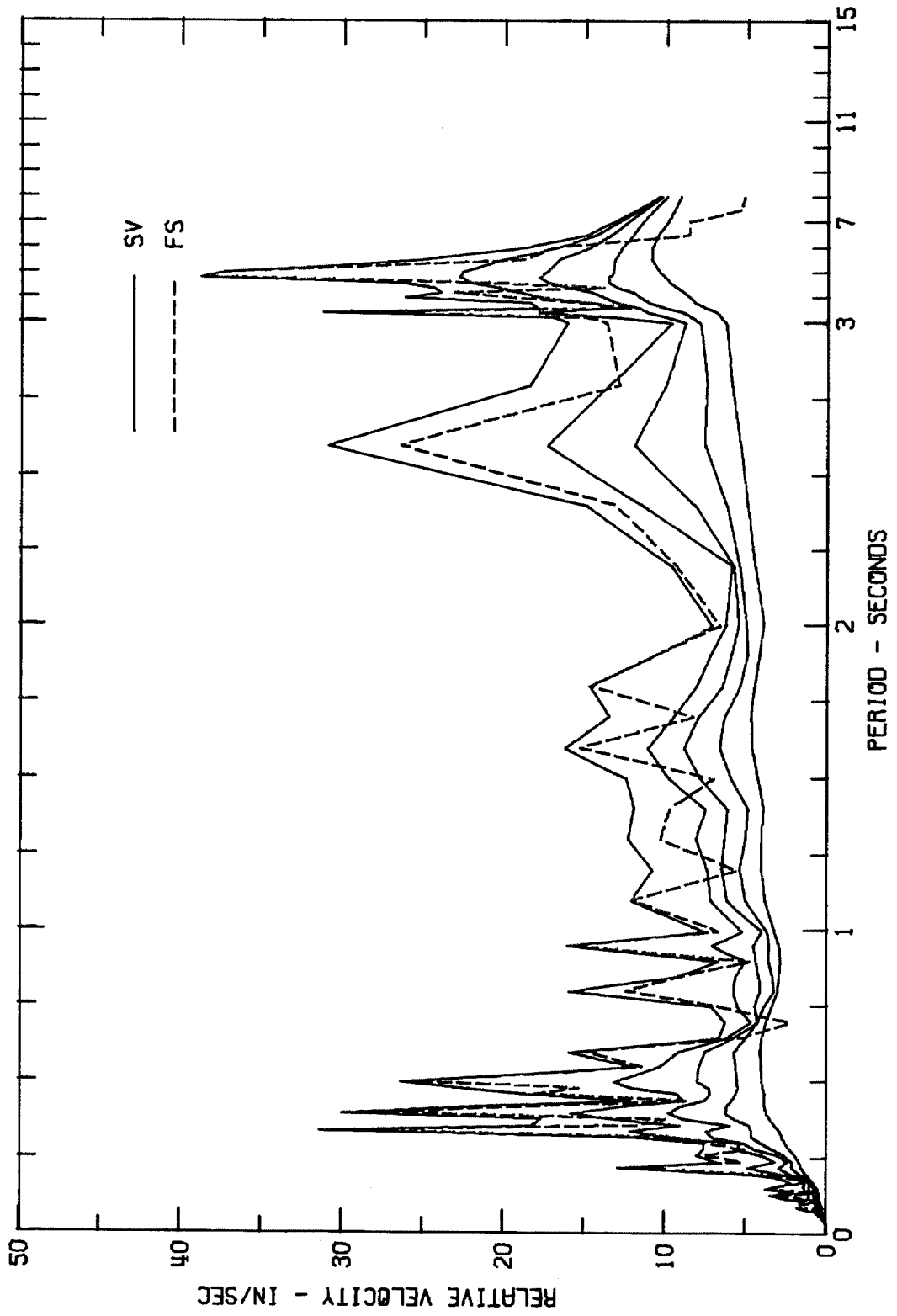
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0.80	692-2	164-2	899-2	182-3	858-2	666-3	516-2	106-3	523-2	586-3	445-2	941-4	460-2	451-3	384-2	741-4	354-2	332-3	271-2	602-4	261-2
0.85	968-2	114-2	120-1	233-3	121-1	106-2	779-2	150-3	783-2	816-3	599-2	116-3	603-2	596-3	430-2	861-4	440-2	378-3	276-2	584-4	279-2
0.90	385-2	253-2	173-1	320-3	176-1	155-2	112-1	196-3	108-1	105-2	767-2	134-3	737-2	707-3	491-2	917-4	493-2	412-3	318-2	586-4	288-2
0.95	271-1	427-2	280-1	484-3	282-1	204-2	136-1	232-3	135-1	113-2	770-2	129-3	750-2	725-3	522-2	830-4	479-2	415-3	346-2	541-4	275-2
1.00	175-1	301-2	183-1	308-3	189-1	174-2	112-1	178-3	109-1	107-2	696-2	110-3	673-2	705-3	496-2	740-4	443-2	420-3	355-2	468-4	264-2
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1.50	937-2	248-2	102-1	112-3	103-1	130-2	634-2	593-4	546-2	927-3	404-2	423-4	368-2	716-3	331-2	334-4	300-2	503-3	261-2	264-4	211-2
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# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111134 71.126.0 1800 CENTURY PARK EAST, BASEMENT (P-3). LOS ANGELES, CAL. COMP N54E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

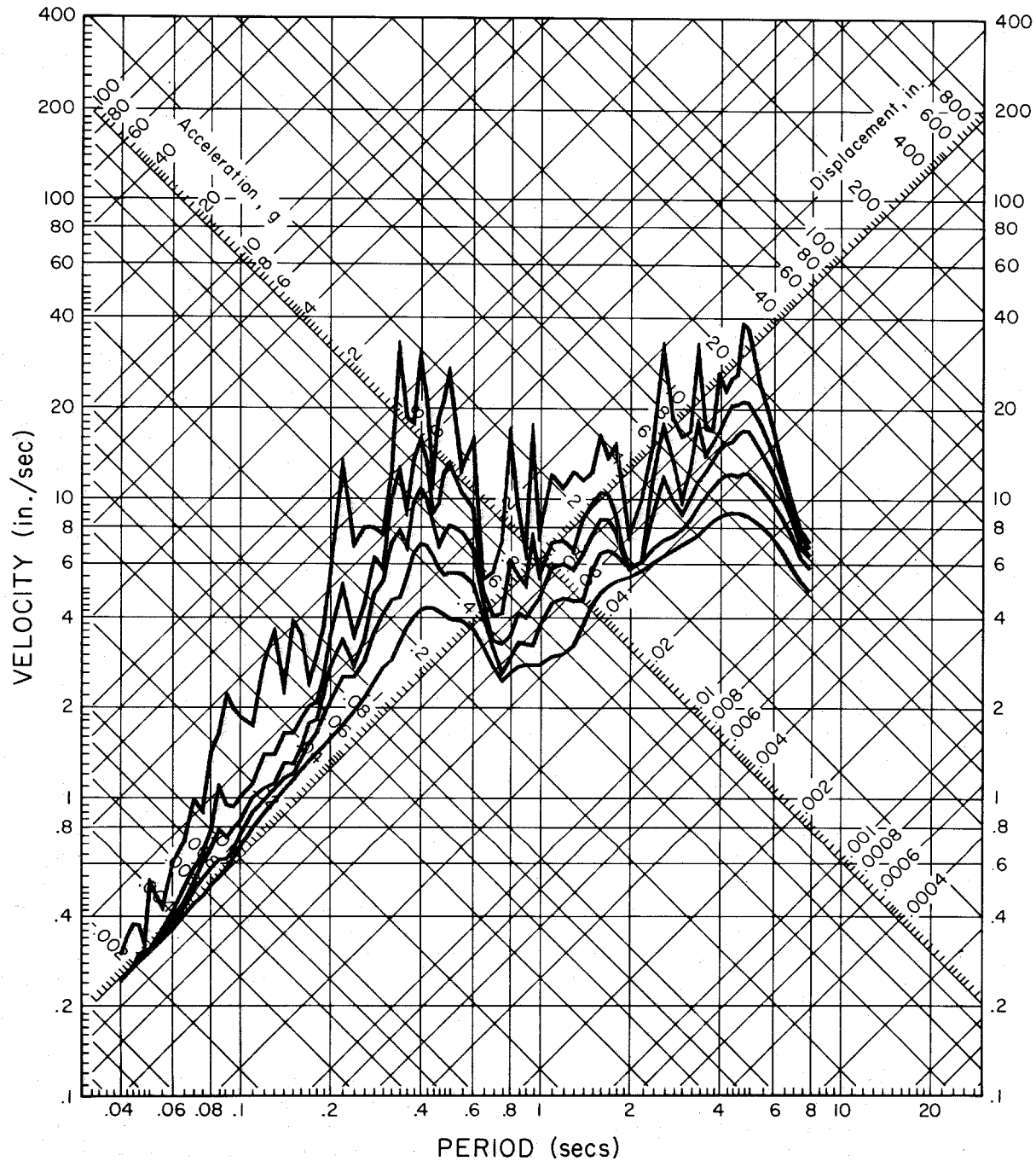


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII134 71.126.0 1800 CENTURY PARK EAST, BASEMENT (P-3), LOS ANGELES, CAL. COMP NSUE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII134 71.126.0 1800 CENTURY PARK EAST, BASEMENT (P-3), LOS ANGELES, CAL. COMP N54E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
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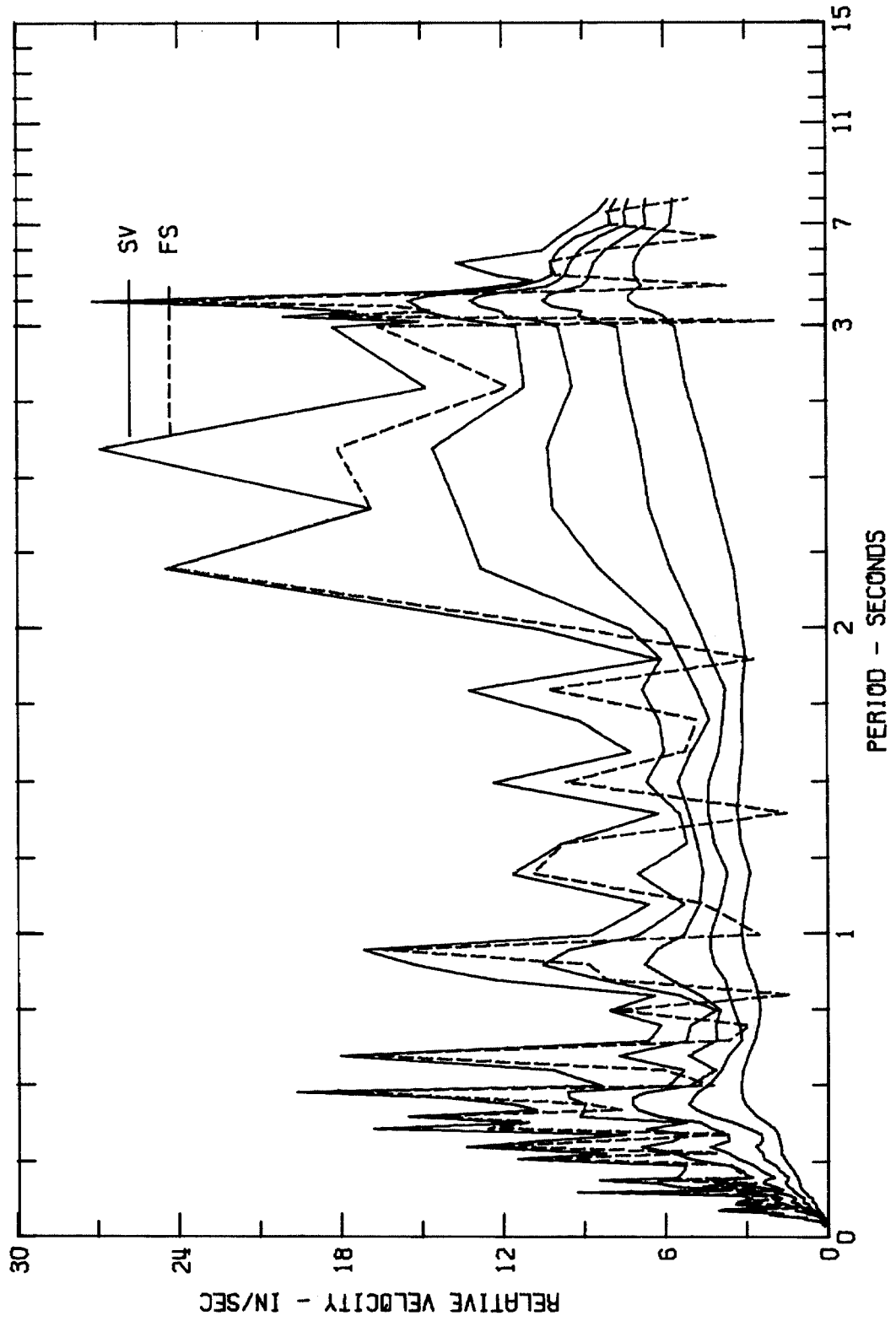
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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DAMPING = 0 PER CENT    DAMPING = 2 PER CENT    DAMPING = 5 PER CENT    DAMPING = 10 PER CENT    DAMPING = 20 PER CENT																	
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0.80	124-1	207-2	160-1	332-3	163-1	793-3	583-2	127-3	623-2	449-3	414-2	721-4	353-2	374-3	329-2	608-4	294-2
0.85	906-2	126-2	931-2	179-3	537-2	757-3	564-2	107-3	559-2	568-3	422-2	806-4	419-2	452-3	337-2	651-4	334-2
0.90	478-2	962-3	667-2	121-3	672-2	740-3	509-2	936-4	516-2	577-3	441-2	733-4	403-2	470-3	364-2	606-4	328-2
0.95	159-1	245-2	161-1	278-3	162-1	112-2	711-2	127-3	745-2	666-3	458-2	759-4	441-2	495-3	355-2	573-4	327-2
1.00	668-2	122-2	759-2	125-3	768-2	888-3	522-2	909-4	558-2	749-3	402-2	769-4	470-2	604-3	374-2	630-4	379-2
1.10	121-1	212-2	121-1	179-3	121-1	126-2	724-2	107-3	724-2	104-2	621-2	886-4	596-2	795-3	508-2	685-4	454-2
1.20	557-2	209-2	107-1	149-3	109-1	140-2	740-2	995-4	734-2	117-2	652-2	835-4	613-2	900-3	542-2	650-4	471-2
1.30	103-1	257-2	123-1	156-3	124-1	141-2	812-2	854-4	681-2	121-2	632-2	735-4	585-2	955-3	502-2	589-4	461-2
1.40	972-2	259-2	119-1	135-3	116-1	193-2	746-2	101-3	870-2	148-2	614-2	778-4	665-2	102-2	487-2	553-4	460-2
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2.40	131-1	584-2	149-1	103-3	153-1	453-2	114-1	805-4	118-1	340-2	824-2	608-4	892-2	265-2	627-2	482-4	694-2
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3.40	312-1	169-1	132-1	150-3	313-1	985-2	180-1	872-4	182-1	628-2	111-1	559-4	116-1	517-2	890-2	469-4	956-2
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3.80	154-1	104-1	184-1	738-4	172-1	950-2	145-1	674-4	157-1	831-2	130-1	591-4	137-1	672-2	110-1	484-4	111-1
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4.20	231-1	155-1	238-1	901-4	232-1	127-1	191-1	740-4	190-1	103-1	146-1	606-4	155-1	818-2	120-1	486-4	122-1
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5.50	188-1	211-1	250-1	716-4	242-1	158-1	201-1	536-4	180-1	119-1	146-1	341-4	146-1	975-2	131-1	337-4	111-1
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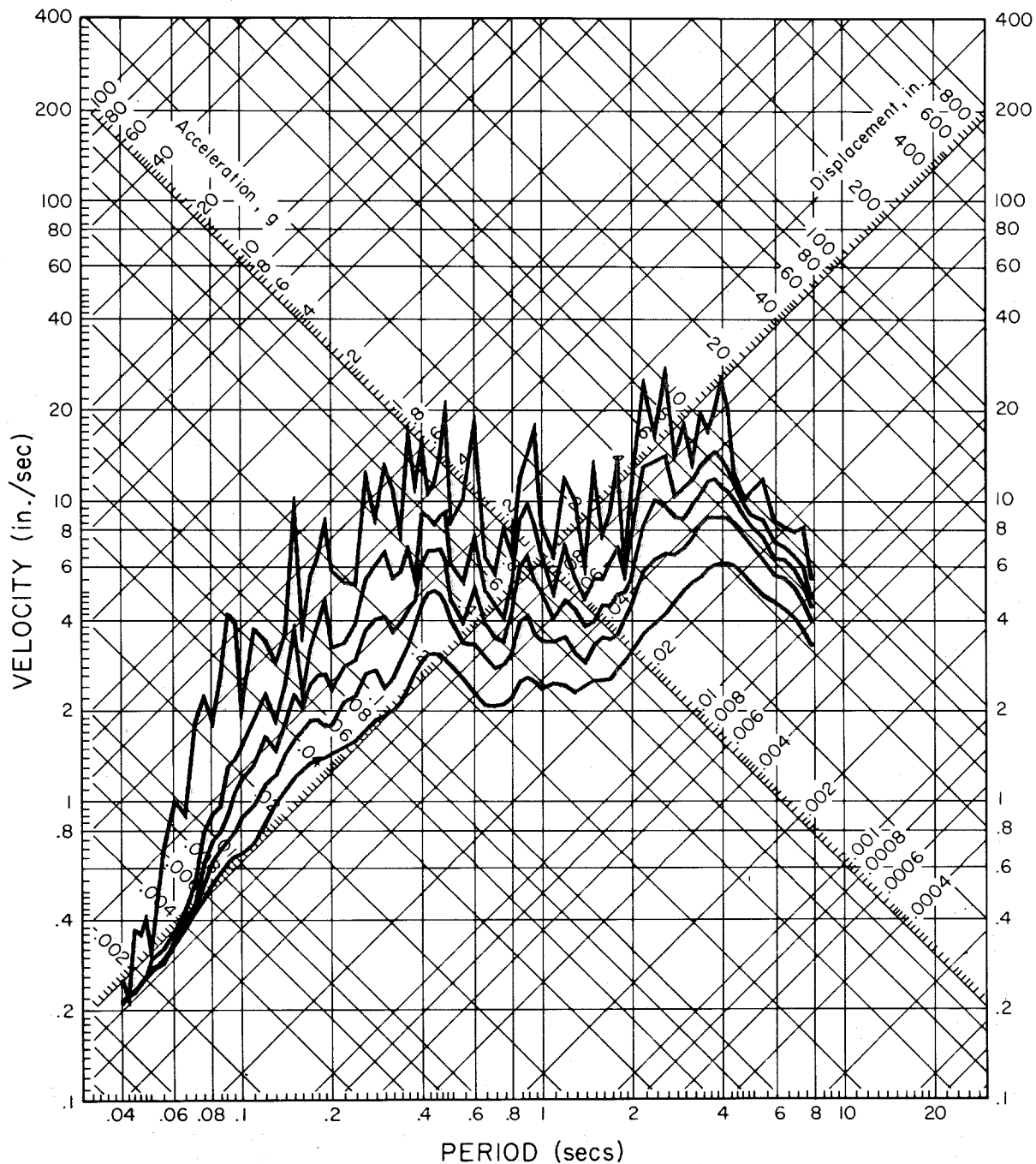
# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII134 71.126.0 1800 CENTURY PARK EAST, BASEMENT (P-3), LOS ANGELES, CAL. COMP S36E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



III1134 71.126.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1800 CENTURY PARK EAST, BASEMENT (P-3), LOS ANGELES, CAL. COMP S36F

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
O.040	131-3	161-5	134-3	103-3	253-3	137-5	562-4	878-4	215-3	136-5	530-4	872-4	214-3	135-5	494-4	867-4	212-3
O.042	394-4	145-5	812-4	842-4	217-3	150-5	588-4	874-4	225-3	149-5	580-4	867-4	223-3	149-5	548-4	866-4	223-3
O.044	130-3	260-5	214-3	137-3	371-3	160-5	747-4	849-4	229-3	161-5	658-4	853-4	230-3	163-5	607-4	865-4	233-3
O.046	966-4	262-5	197-3	127-3	358-3	181-5	857-4	878-4	248-3	178-5	728-4	862-4	243-3	179-5	664-4	868-4	245-3
O.048	218-3	312-5	259-3	138-3	408-3	200-5	101-3	891-4	262-3	199-5	793-4	885-4	260-3	197-5	748-4	876-4	258-3
O.050	518-4	249-5	171-3	102-3	314-3	236-5	103-3	965-4	296-3	221-5	908-4	908-4	278-3	215-5	837-4	881-4	270-3
O.055	350-3	612-5	530-3	207-3	699-3	283-5	179-3	957-4	323-3	251-5	133-3	851-4	287-3	253-5	107-3	856-4	289-3
O.060	889-3	956-5	908-3	271-3	100-2	355-5	224-3	101-3	372-3	332-5	164-3	945-4	348-3	321-5	141-3	911-4	336-3
O.065	839-3	929-5	856-3	225-3	898-3	452-5	250-3	109-3	436-3	415-5	197-3	100-3	401-3	399-5	182-3	970-4	385-3
O.070	166-2	205-4	179-2	428-3	184-2	597-5	431-3	124-3	536-3	507-5	333-3	105-3	455-3	487-5	256-3	102-3	437-3
O.075	205-2	266-4	219-2	483-3	222-2	952-5	577-3	173-3	797-3	741-5	428-3	134-3	621-3	636-5	315-3	117-3	533-3
O.080	173-2	233-4	178-2	372-2	183-2	115-4	824-3	184-3	910-3	945-5	545-3	151-3	742-3	802-5	346-3	129-3	630-3
O.085	223-2	350-4	252-2	495-3	258-2	130-4	793-3	185-3	965-3	107-4	577-3	151-3	794-3	941-5	413-3	132-3	695-3
O.090	382-2	605-4	410-2	764-3	422-2	187-4	123-2	238-3	131-2	130-4	807-3	167-3	912-3	106-4	544-3	136-3	745-3
O.095	302-2	607-4	390-2	688-3	401-2	209-4	120-2	266-3	138-2	163-4	927-3	186-3	912-3	119-4	651-3	136-3	792-3
O.100	683-3	319-4	180-2	326-3	200-2	243-4	130-2	250-3	153-2	188-4	101-2	197-3	118-2	140-4	720-3	146-3	882-3
O.110	230-2	658-4	346-2	556-3	376-2	329-4	164-2	280-3	188-2	233-4	111-2	194-3	133-2	170-4	770-3	145-3	975-3
O.120	336-2	654-4	340-2	464-3	342-2	434-4	158-2	311-3	227-2	314-4	140-2	226-3	164-2	218-4	940-3	158-3	114-2
O.130	183-2	598-4	283-2	362-3	289-2	383-4	171-2	232-3	185-2	306-4	125-2	188-3	148-2	254-4	906-3	158-3	123-2
O.140	252-2	808-4	321-2	421-3	362-2	548-4	158-2	285-3	246-2	404-4	139-2	214-3	181-2	322-4	106-2	171-3	144-2
O.150	754-2	227-3	932-2	103-2	951-2	890-4	341-2	402-3	373-2	540-4	202-2	249-3	226-2	385-4	128-2	178-3	161-2
O.160	270-2	935-4	363-2	373-3	367-2	575-4	194-2	230-3	225-2	521-4	168-2	209-3	204-2	442-4	134-2	180-3	173-2
O.170	468-2	154-3	567-2	546-3	571-2	883-4	282-2	311-3	326-2	668-4	200-2	237-3	246-2	505-4	149-2	180-3	186-2
O.180	269-2	189-3	637-2	599-3	662-2	112-3	363-2	357-3	393-2	753-4	240-2	237-3	263-2	535-4	160-2	172-3	187-2
O.190	631-2	258-3	849-2	733-3	856-2	141-3	437-2	399-3	467-2	801-4	236-2	227-3	265-2	538-4	155-2	155-3	178-2
O.200	281-2	187-3	560-2	480-3	590-2	103-3	294-2	263-3	326-2	749-4	199-2	193-3	235-2	573-4	147-2	144-3	180-2
O.220	335-2	188-3	536-2	398-3	538-2	118-3	317-2	250-3	338-2	983-4	251-2	208-3	280-2	750-4	179-2	162-3	155-3
O.240	357-2	203-3	527-2	361-3	533-2	150-3	373-2	266-3	394-2	113-3	276-2	205-3	297-2	861-4	196-2	155-3	225-2
O.260	112-1	505-3	115-1	764-3	122-1	229-3	518-2	349-3	555-2	154-3	338-2	231-3	374-2	110-3	241-2	167-3	266-2
O.280	414-2	392-3	824-2	511-3	879-2	275-3	568-2	358-3	618-2	180-3	372-2	236-3	406-2	122-3	243-2	163-3	274-2
O.300	124-1	629-3	134-1	715-3	151-1	326-3	694-2	270-3	683-2	198-3	440-2	224-3	416-2	113-3	269-2	132-3	238-2
O.320	820-2	559-3	107-1	558-3	109-1	285-3	573-2	286-3	559-2	187-3	367-2	188-3	368-2	131-3	243-2	132-3	257-2
O.340	367-2	426-3	749-2	377-3	787-2	318-3	528-2	282-3	589-2	215-3	373-2	190-3	397-2	159-3	247-2	143-3	295-2
O.360	126-1	968-3	168-1	764-3	169-1	401-3	676-2	316-3	701-2	249-3	432-2	195-3	435-2	189-3	299-2	151-3	331-2
O.380	110-1	685-3	111-1	485-3	113-1	332-3	522-2	234-3	549-2	284-3	476-2	203-3	470-2	236-3	354-2	168-3	390-2
O.400	149-1	997-3	155-1	637-3	156-1	582-3	922-2	371-3	914-2	399-3	627-2	259-3	627-2	290-3	429-2	188-3	456-2
O.420	762-2	719-3	107-1	416-3	107-1	600-3	905-2	348-3	898-2	462-3	707-2	268-3	692-2	333-3	491-2	197-3	498-2
O.440	918-2	819-3	117-1	433-3	117-1	592-3	899-2	313-3	846-2	485-3	725-2	256-3	692-2	355-3	518-2	192-3	507-2
O.460	138-1	103-2	140-1	458-3	140-1	661-3	962-2	321-3	903-2	512-3	724-2	248-3	699-2	360-3	500-2	179-3	492-2
O.480	182-1	153-2	196-1	679-3	200-1	713-3	964-2	317-3	934-2	486-3	666-2	217-3	636-2	347-3	482-2	157-3	454-2
O.500	424-2	686-3	838-2	280-3	862-2	497-3	589-2	203-3	624-2	376-3	514-2	154-3	473-2	321-3	442-2	134-3	404-2
O.550	614-2	902-3	101-1	305-3	103-1	473-3	522-2	160-3	541-2	346-3	415-2	118-3	395-2	296-3	394-2	102-3	338-2
O.600	172-1	175-2	180-1	498-3	183-1	732-3	776-2	208-3	766-2	495-3	516-2	141-3	518-2	320-3	366-2	930-4	335-2
O.650	363-2	678-3	662-2	164-3	656-2	525-3	522-2	127-3	507-2	408-3	411-2	988-4	394-2	312-3	320-2	774-4	302-2
O.700	290-2	641-3	619-2	133-2	576-2	505-3	507-2	105-3	453-2	392-3	415-2	820-4	352-2	309-3	329-2	657-4	278-2

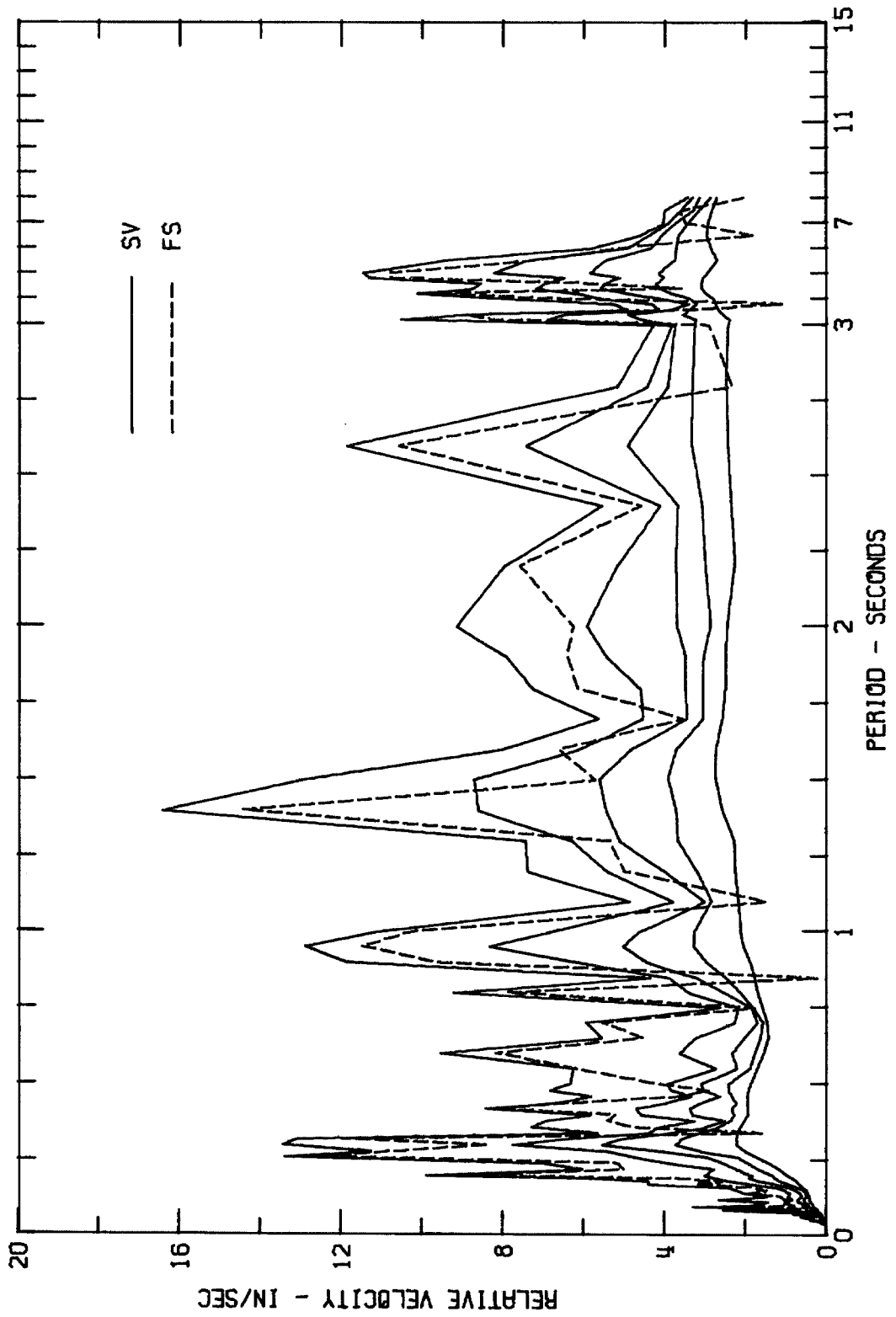
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND C FOR SA

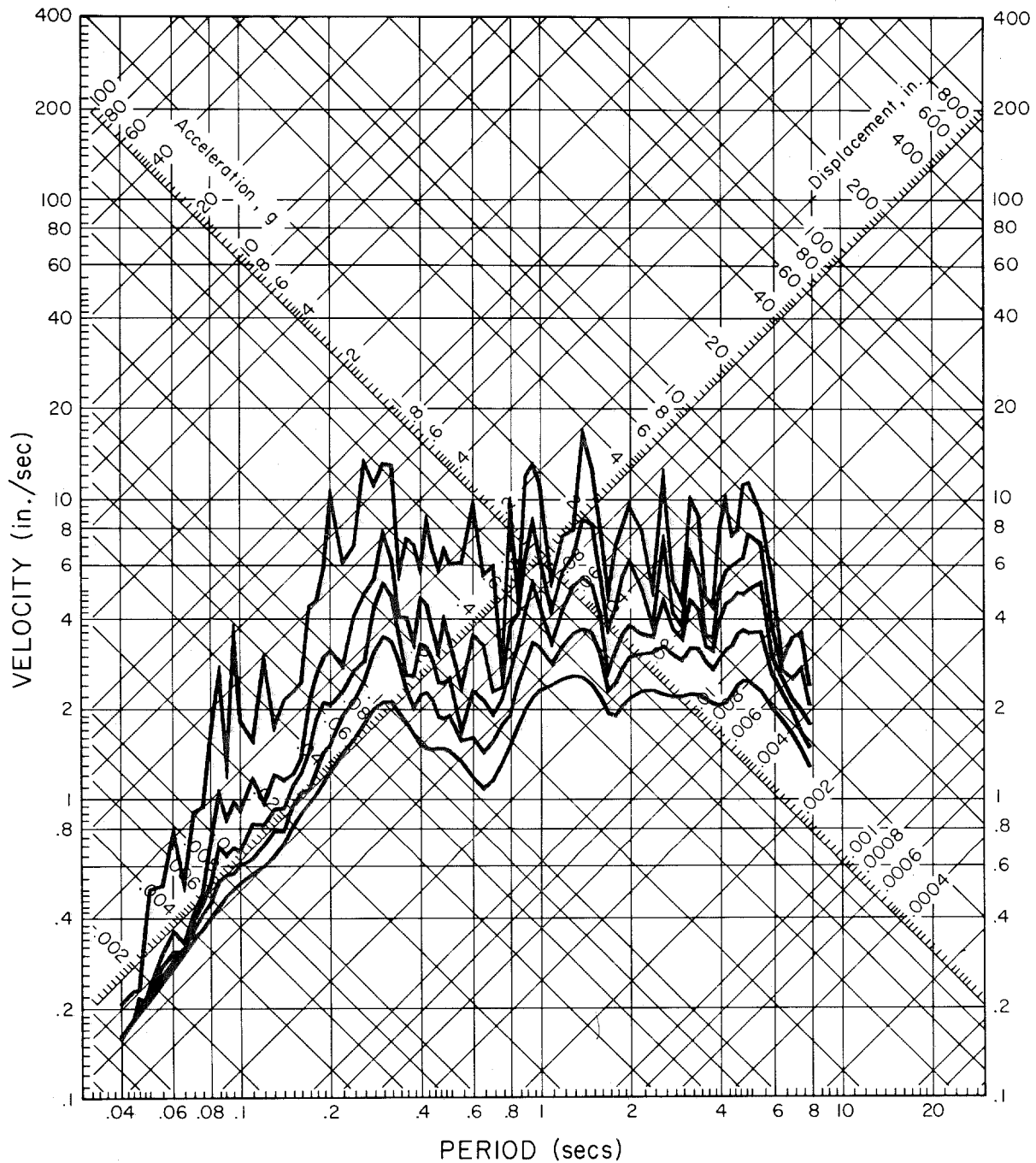
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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	790-2	977-3	809-2	177-3	818-2	487-3	412-2	886-4	408-2	409-3	396-2	749-4	343-2	342-3	349-2	636-4	286-2	251-3	251-2	505-4	210-2
0.80	140-2	846-3	641-2	135-3	664-2	692-3	549-2	110-3	543-2	552-3	471-2	889-4	433-2	401-3	367-2	655-4	315-2	283-3	258-2	490-4	223-2
0.85	821-2	163-2	123-1	231-3	120-1	119-2	835-2	168-3	882-2	826-3	583-2	117-3	611-2	541-3	381-2	778-4	400-2	339-3	273-2	512-4	250-2
0.90	886-2	206-2	153-1	261-3	144-1	142-2	105-1	179-3	991-2	953-3	678-2	120-3	665-2	599-3	422-2	777-4	418-2	371-3	297-2	510-4	259-2
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1800 CENTURY PARK EAST, BASEMENT (P-3), LOS ANGELES, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



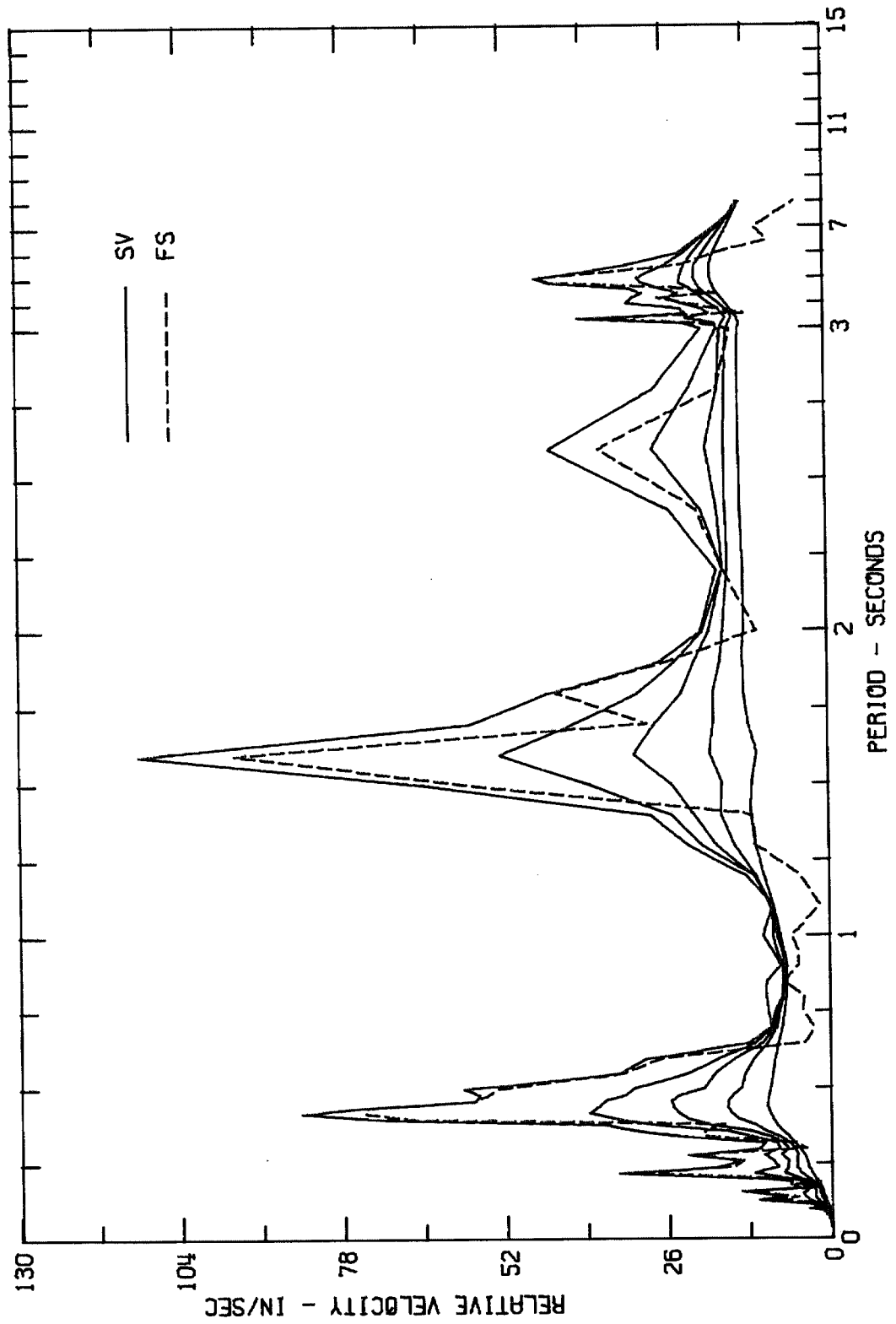




THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

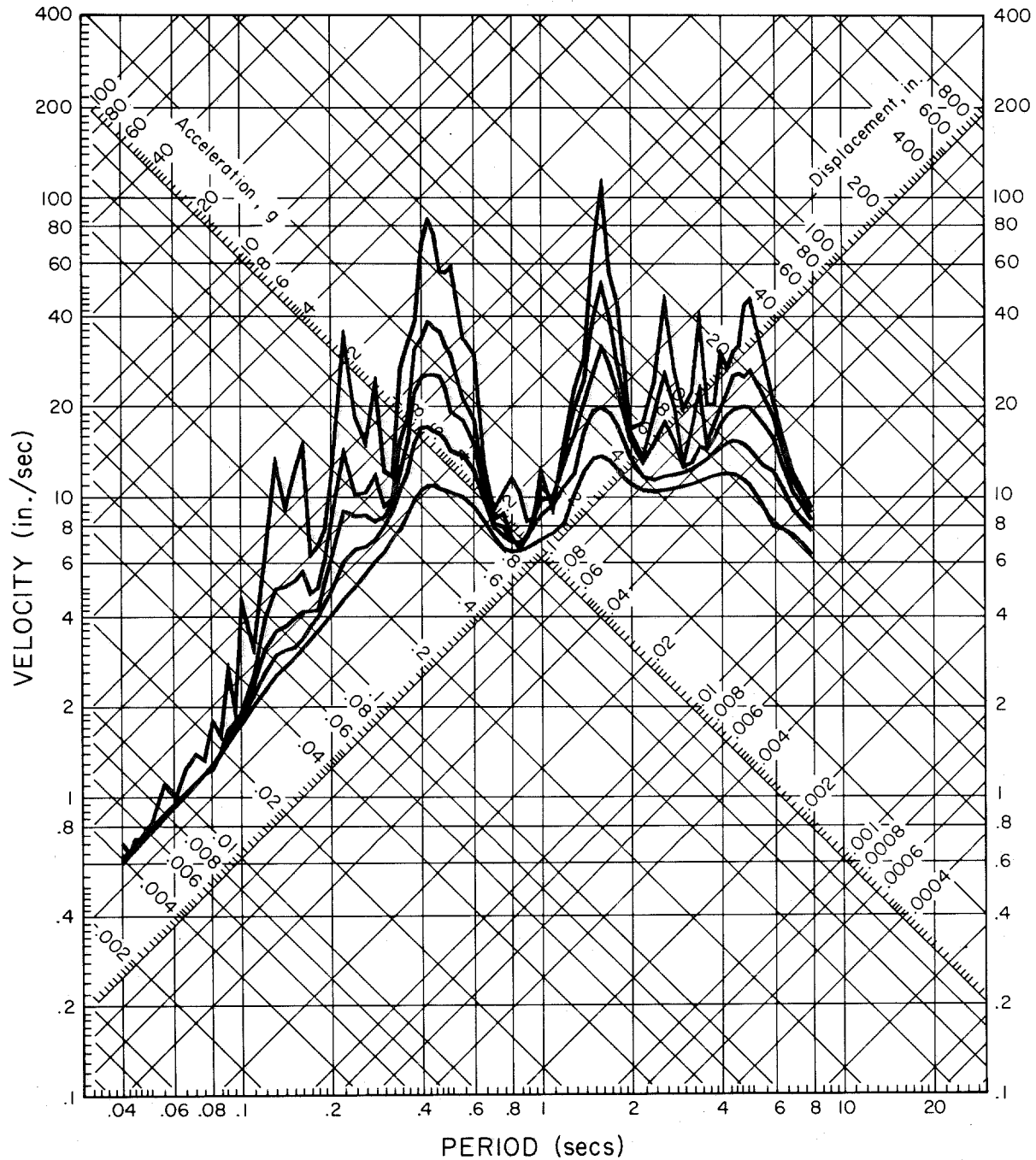


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP NS4E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL





1111135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP N54E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

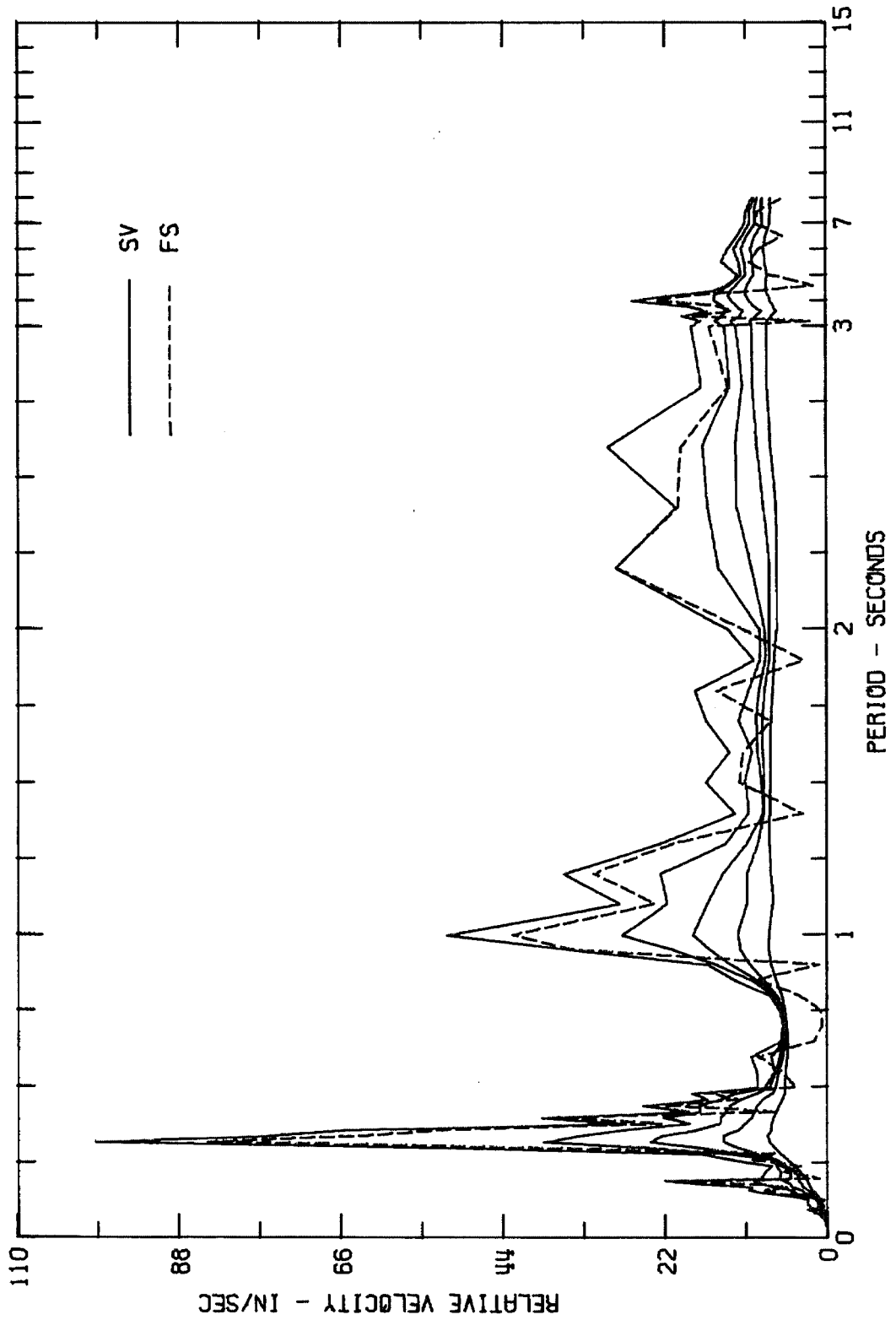
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0.80	421-2	148-2	102-1	237-3	116-1	942-3	778-2	151-3	740-2	915-3	774-2	147-3	718-2	911-3	762-2	150-3	716-2
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8.00	466-2	117-1	140-1	188-4	926-2	113-1	134-1	183-4	894-2	107-1	136-1	177-4	847-2	986-2	137-1	181-4	774-2

# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP S36E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

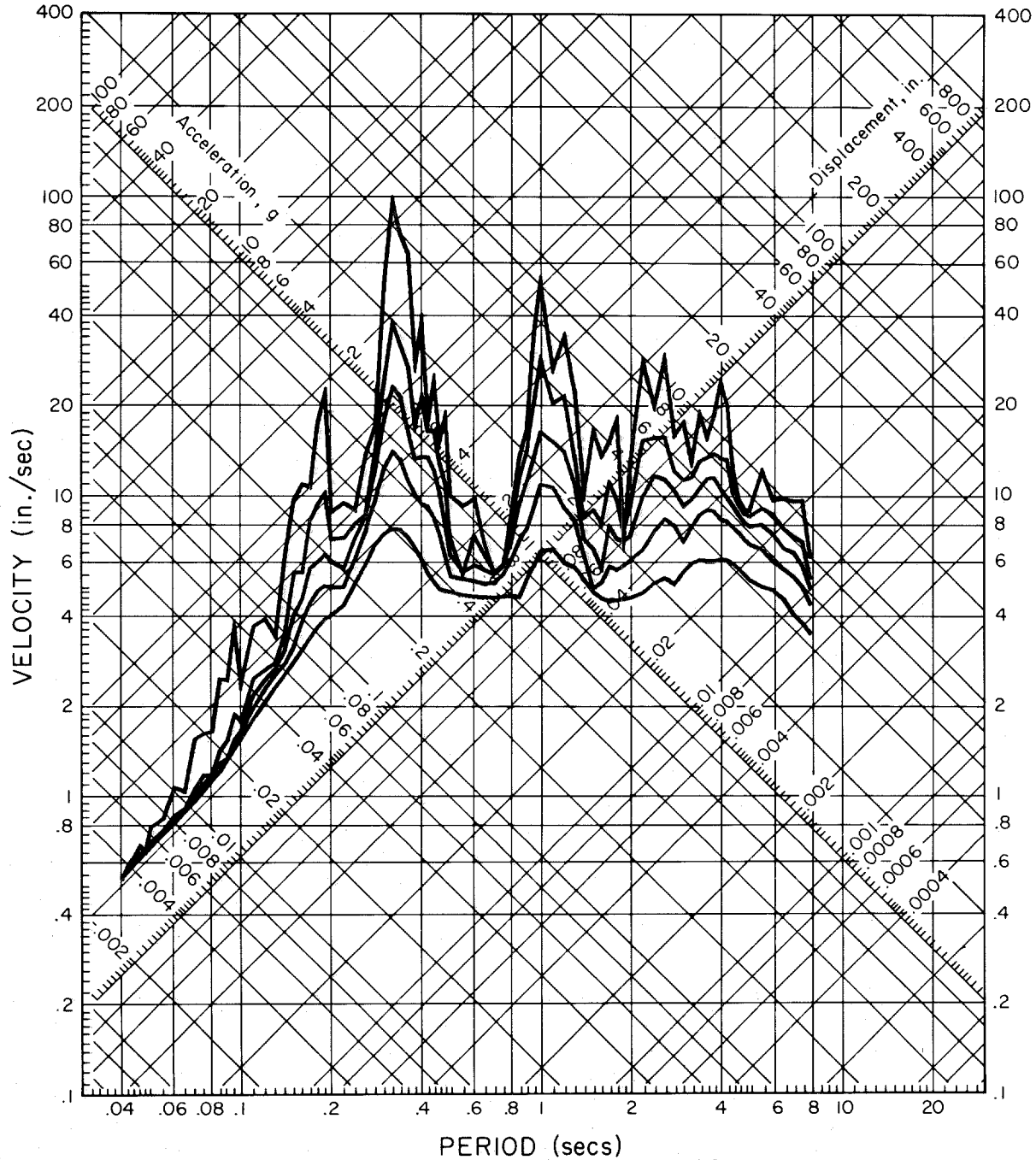


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP S36E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE    FEB 9, 1971 - 0600 PST  
 1111135    71.127.0    1800 CENTURY PARK EAST, 5TH FLOOR, LCS ANGELES, CAL.    CCMP S36E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	637-4	337-5	112-3	215-3	530-3	342-5	867-4	219-3	538-3	344-5	846-4	220-3	541-3	344-5	857-4	220-3	541-3	342-5	846-4	219-3	537-3
0.042	838-4	397-5	140-3	230-3	594-3	376-5	979-4	218-3	563-3	381-5	936-4	221-3	571-3	381-5	956-4	221-3	570-3	378-5	943-4	220-3	566-3
0.044	851-4	443-5	153-3	234-3	633-3	432-5	115-3	228-3	617-3	425-5	110-3	224-3	607-3	420-5	107-3	222-3	601-3	416-5	105-3	221-3	595-3
0.046	789-4	501-5	198-3	242-3	685-3	473-5	127-3	228-3	646-3	465-5	126-3	225-3	636-3	461-5	120-3	223-3	630-3	456-5	116-3	221-3	624-3
0.048	335-4	497-5	179-3	221-3	651-3	502-5	152-3	222-3	657-3	505-5	142-3	224-3	661-3	504-5	134-3	224-3	659-3	498-5	128-3	222-3	652-3
0.050	243-3	631-5	262-3	258-3	793-3	559-5	167-3	229-3	703-3	553-5	156-3	226-3	695-3	548-5	148-3	224-3	689-3	541-5	141-3	222-3	680-3
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0.060	291-3	102-4	522-3	292-3	107-2	826-5	256-3	234-3	865-3	802-5	230-3	228-3	840-3	790-5	215-3	224-3	827-3	784-5	210-3	223-3	821-3
0.065	182-3	108-4	390-3	262-3	104-2	946-5	345-3	229-3	914-3	938-5	295-3	227-3	907-3	922-5	263-3	224-3	892-3	922-5	249-3	224-3	891-3
0.070	667-3	174-4	862-3	363-3	156-2	118-4	346-3	246-3	106-2	111-4	317-3	231-3	997-3	108-4	295-3	226-3	976-3	107-4	297-3	226-3	966-3
0.075	586-3	195-4	989-3	355-3	163-2	141-4	401-3	256-3	118-2	132-4	374-3	240-3	110-2	126-4	369-3	231-3	106-2	125-4	356-3	229-3	104-2
0.080	445-3	211-4	104-2	337-3	166-2	151-4	507-3	241-3	118-2	151-4	504-3	241-3	118-2	145-4	467-3	232-3	113-2	144-4	424-3	233-3	113-2
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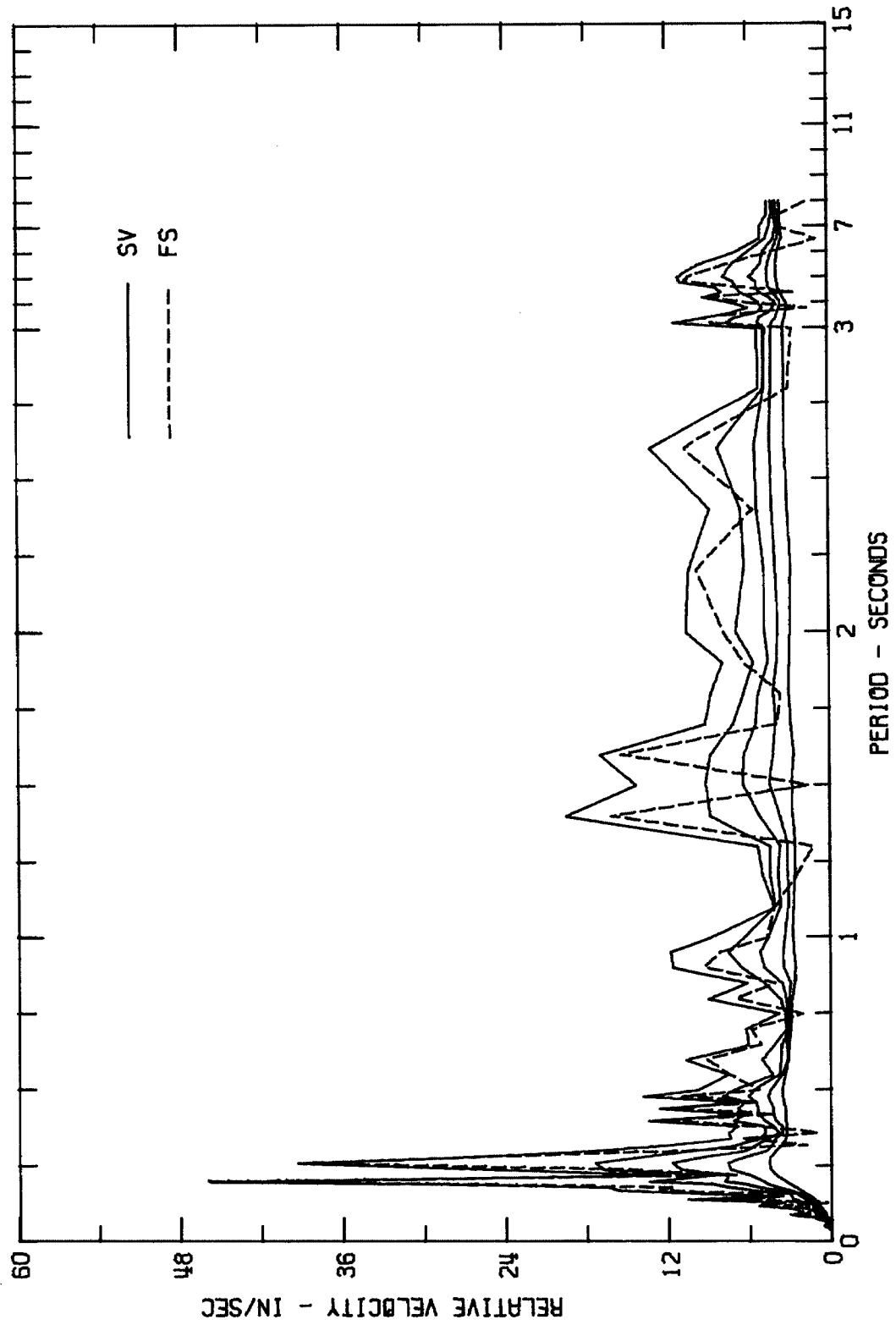


IIII135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP S36E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
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2.20	286-1	100-1	286-1	212-3	286-1	547-2	147-1	115-3	156-1	354-2	103-1	753-4	101-1	237-2	776-2	510-4	678-2	170-2	679-2	389-4	486-2																												
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4.00	233-1	155-1	264-1	995-4	244-1	864-2	151-1	552-4	135-1	684-2	128-1	442-4	107-1	542-2	105-1	356-4	851-2	400-2	764-2	294-4	628-2																												
4.20	188-1	137-1	216-1	797-4	205-1	899-2	152-1	522-4	134-1	669-2	133-1	391-4	100-1	560-2	109-1	334-4	838-2	417-2	788-2	276-4	624-2																												
4.40	952-2	865-2	153-1	457-4	123-1	728-2	143-1	385-4	104-1	658-2	129-1	345-4	940-2	563-2	109-1	308-4	804-2	426-2	817-2	256-4	608-2																												
4.60	165-2	725-2	137-1	350-4	991-2	693-2	131-1	335-4	947-2	643-2	122-1	313-4	878-2	561-2	107-1	280-4	767-2	428-2	824-2	238-4	585-2																												
4.80	472-2	701-2	126-1	311-4	917-2	676-2	122-1	300-4	885-2	634-2	115-1	284-4	831-2	560-2	103-1	255-4	733-2	429-2	814-2	220-4	561-2																												
5.00	783-2	723-2	120-1	295-4	908-2	694-2	116-1	284-4	872-2	644-2	109-1	264-4	810-2	560-2	984-2	236-4	704-2	427-2	794-2	204-4	536-2																												
5.50	105-1	107-1	142-1	364-4	123-1	808-2	119-1	273-4	923-2	715-2	111-1	243-4	816-2	591-2	101-1	206-4	676-2	446-2	838-2	189-4	496-2																												
6.00	916-2	941-2	134-1	267-4	585-2	843-2	125-1	240-4	882-2	725-2	115-1	209-4	759-2	591-2	102-1	179-4	619-2	473-2	850-2	173-4	496-2																												
6.50	577-2	103-1	119-1	249-4	995-2	820-2	114-1	198-4	793-2	705-2	106-1	173-4	682-2	604-2	967-2	156-4	584-2	478-2	822-2	154-4	462-2																												
7.00	574-2	108-1	110-1	226-4	974-2	833-2	104-1	174-4	748-2	736-2	965-2	155-4	661-2	612-2																																			

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

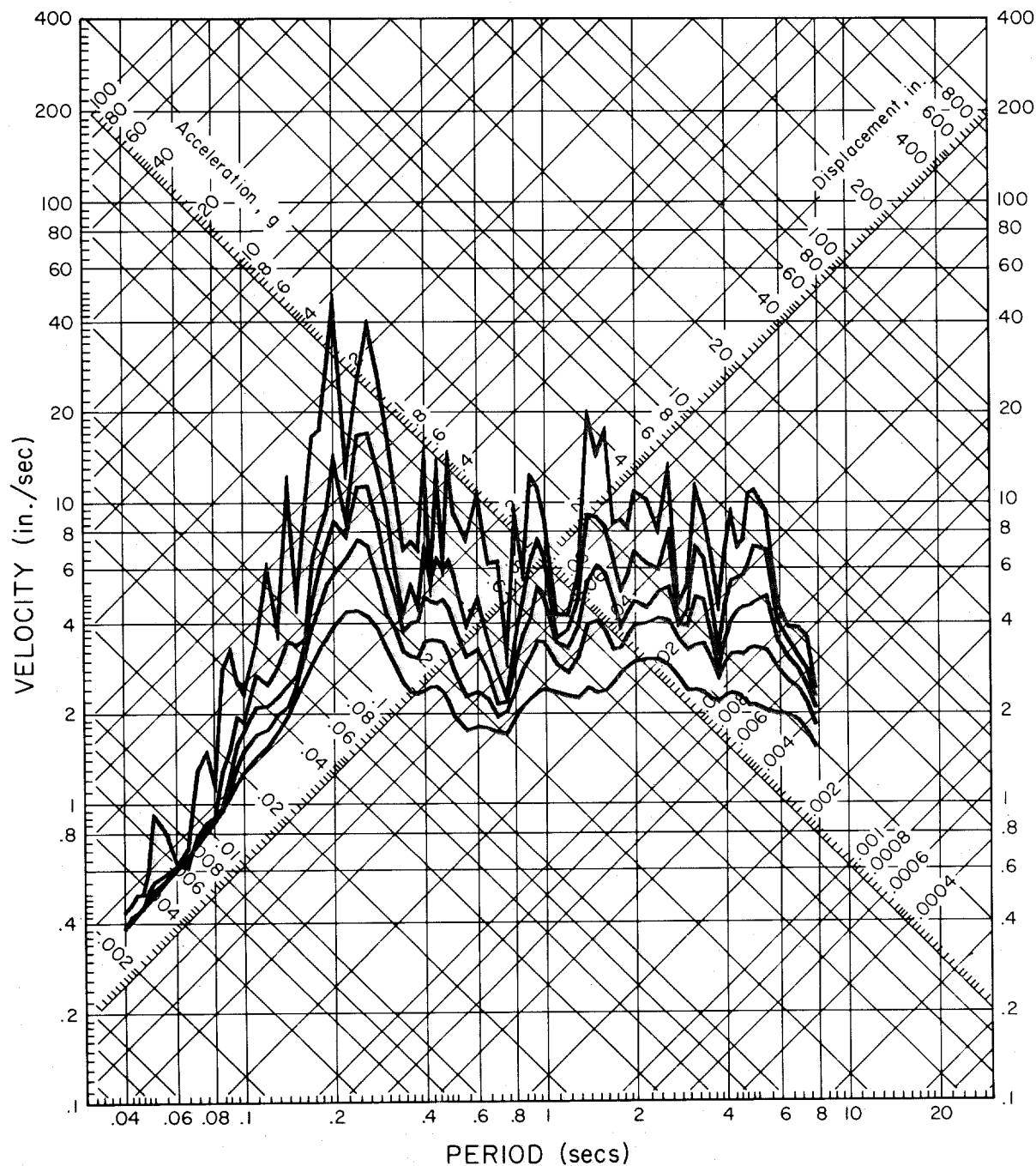


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIII135 71.127.0 1800 CENTURY PARK EAST, 5TH FLOOR, LCS ANGELES, CAL. CCMP DOWN  
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	SA	PSV	SD	SV	SA	PSV	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	SV	SA	PSV	DAMPING = 20 PER CENT
O.040	547-4	277-5	158-3	177-3	435-3	244-5	910-4	156-3	383-3	246-5	812-4	157-3	387-3	245-5	827-4	157-3	387-3	245-5	836-4
O.042	218-3	309-5	226-3	179-3	462-3	280-5	913-4	162-3	415-3	274-5	900-4	159-3	410-3	273-5	919-4	158-3	409-3	271-5	926-4
O.044	176-3	348-5	197-3	184-3	497-3	302-5	114-3	159-3	432-3	301-5	103-3	159-3	430-3	301-5	102-3	159-3	431-3	299-5	102-3
O.046	185-3	365-5	227-3	176-3	499-3	326-5	116-3	157-3	446-3	331-5	114-3	160-3	453-3	332-5	115-3	160-3	454-3	329-5	113-3
O.048	212-3	453-5	367-3	201-3	593-3	391-5	162-3	174-3	512-3	374-5	140-3	165-3	489-3	365-5	130-3	162-3	478-3	360-5	124-3
O.050	571-3	728-5	584-3	258-3	916-3	436-5	186-3	178-3	548-3	406-5	155-3	166-3	511-3	397-5	143-3	163-3	499-3	393-5	135-3
O.055	476-3	699-5	568-3	236-3	758-3	511-5	203-3	172-3	584-3	485-5	180-3	164-3	555-3	483-5	172-3	163-3	552-3	481-5	163-3
O.060	175-3	592-5	359-3	168-3	620-3	596-5	217-3	169-3	624-3	587-5	209-3	166-3	615-3	581-5	204-3	165-3	608-3	579-5	194-3
O.065	821-4	741-5	408-3	179-3	716-3	632-5	288-3	153-3	611-3	666-5	252-3	161-3	644-3	685-5	243-3	166-3	662-3	690-5	228-3
O.070	358-3	145-4	939-3	302-3	130-2	871-5	336-3	182-3	787-3	843-5	308-3	176-3	756-3	824-5	282-3	173-3	739-3	817-5	261-3
O.075	864-3	177-4	128-2	322-3	148-2	103-4	428-3	188-3	865-3	100-4	344-3	183-3	841-3	978-5	314-3	178-3	819-3	959-5	295-3
O.080	378-3	146-4	952-3	234-3	115-2	115-4	618-3	183-3	904-3	112-4	457-3	180-3	883-3	111-4	401-3	178-3	878-3	111-4	333-3
O.085	151-2	384-4	247-2	544-3	284-2	175-4	952-3	249-3	129-2	132-4	661-3	189-3	982-3	128-4	496-3	183-3	952-3	130-4	394-3
O.090	286-2	468-4	316-2	591-3	326-2	219-4	106-2	278-3	153-2	179-4	800-3	225-3	125-2	163-4	616-3	206-3	114-2	152-4	458-3
O.095	165-2	384-4	225-2	435-3	254-2	294-4	128-2	332-3	194-2	241-4	955-3	274-3	159-2	203-4	712-3	232-3	134-2	177-4	525-3
O.100	193-2	370-4	216-2	379-3	232-2	297-4	105-2	304-3	186-2	278-4	987-3	285-3	175-2	239-4	787-3	248-3	150-2	202-4	575-3
O.110	191-2	607-4	320-2	513-3	346-2	473-4	205-2	399-3	270-2	369-4	141-2	316-3	211-2	298-4	104-2	257-3	170-2	250-4	730-3
O.120	360-2	117-3	547-2	822-3	613-2	479-4	174-2	341-3	250-2	405-4	144-2	287-3	212-2	337-4	117-2	240-3	176-2	295-4	936-3
O.130	334-3	782-4	352-2	473-3	378-2	594-4	207-2	358-3	287-2	472-4	150-2	284-3	228-2	412-4	126-2	251-3	199-2	361-4	111-2
O.140	785-2	252-3	107-1	131-2	113-1	178-4	285-2	409-3	349-2	557-4	195-2	293-3	250-2	472-4	161-2	246-3	211-2	439-4	131-2
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O.170	127-1	454-3	158-1	160-2	168-1	179-3	583-2	634-3	662-2	132-3	404-2	467-3	488-2	106-3	313-2	383-3	393-2	803-4	233-2
O.180	117-1	504-3	165-1	159-2	176-1	233-3	777-2	737-3	813-2	176-3	547-2	559-3	614-2	133-3	403-2	430-3	464-2	956-4	273-2
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O.200	462-1	148-2	455-1	379-2	465-1	447-3	135-1	113-2	140-1	278-3	793-2	702-3	873-2	186-3	507-2	474-3	586-2	125-3	345-2
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O.240	161-1	965-3	250-1	172-2	253-1	644-3	169-1	115-2	168-1	434-3	767-2	580-3	776-2	231-3	609-2	497-3	660-2	153-3	419-2
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O.300	113-1	825-3	178-1	937-3	172-1	452-3	102-1	510-3	948-2	287-3	632-2	326-3	602-2	204-3	479-2	235-3	427-2	157-3	408-2
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND C FOR SA

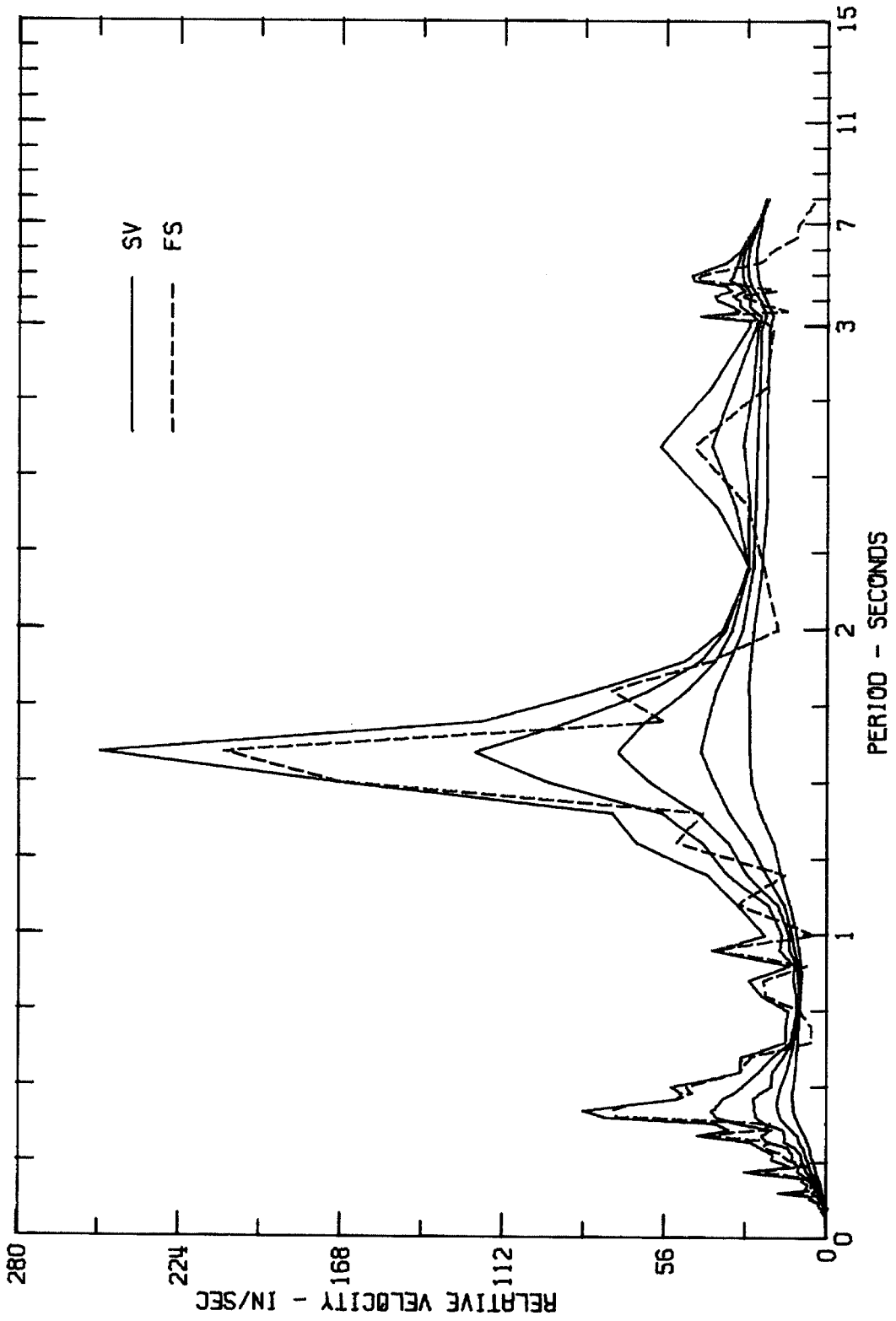
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1.30	122-2	435-2	195-1	729-4	582-2	997-3	445-2	605-4	482-2	814-3	370-2	497-4	393-2	643-3	317-2	405-4	311-2	470-3
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# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL.  
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

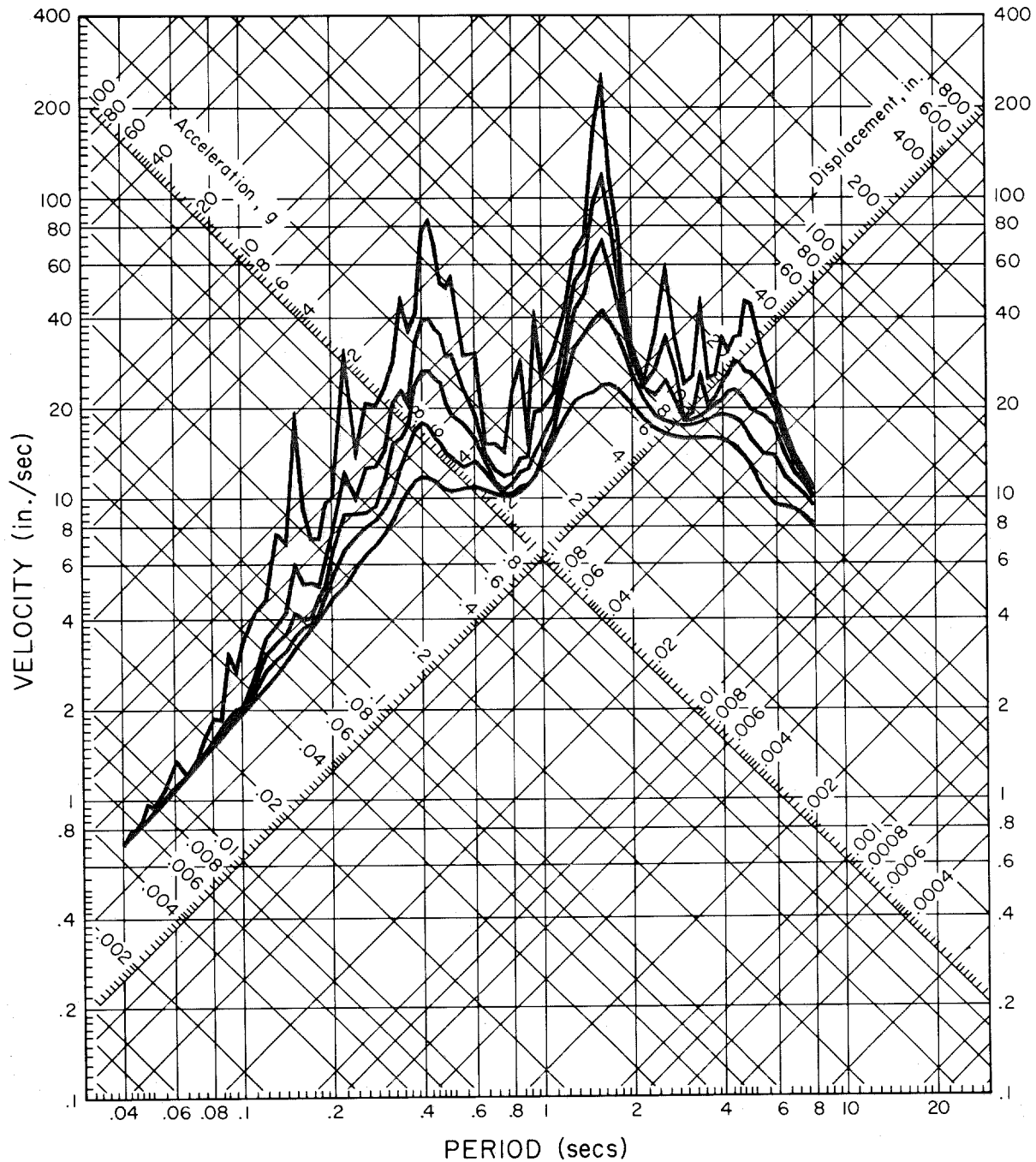


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP NS4E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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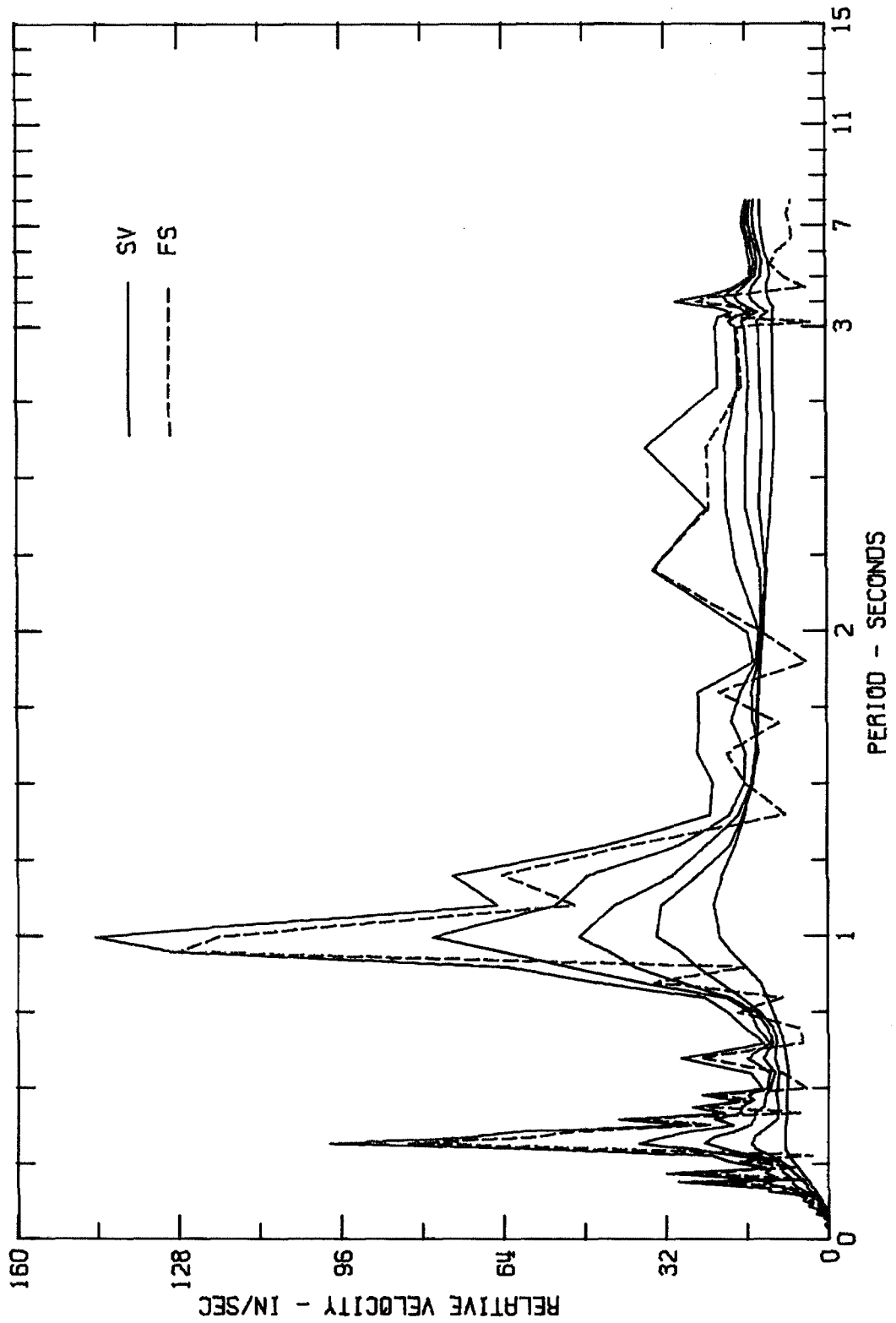


IIII136 71.128.0 1800 CENTURY PARK EAST, FENTHOUSE, LCS ANGELES, CAL. COMP N54E

THE UNITS USED ARE SEC FCR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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3.80	210-1	157-																																															

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP S36E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

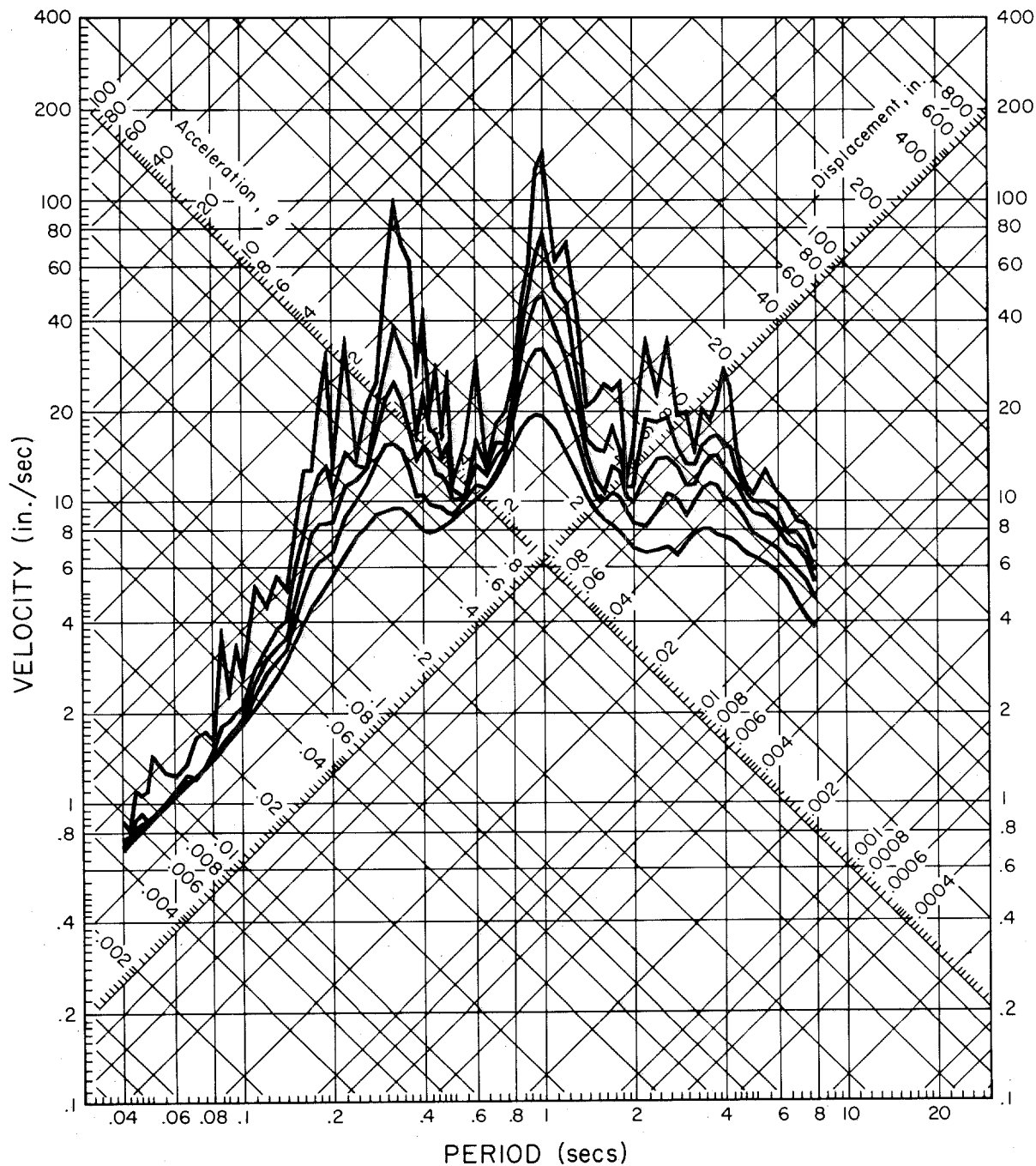


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP S36E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



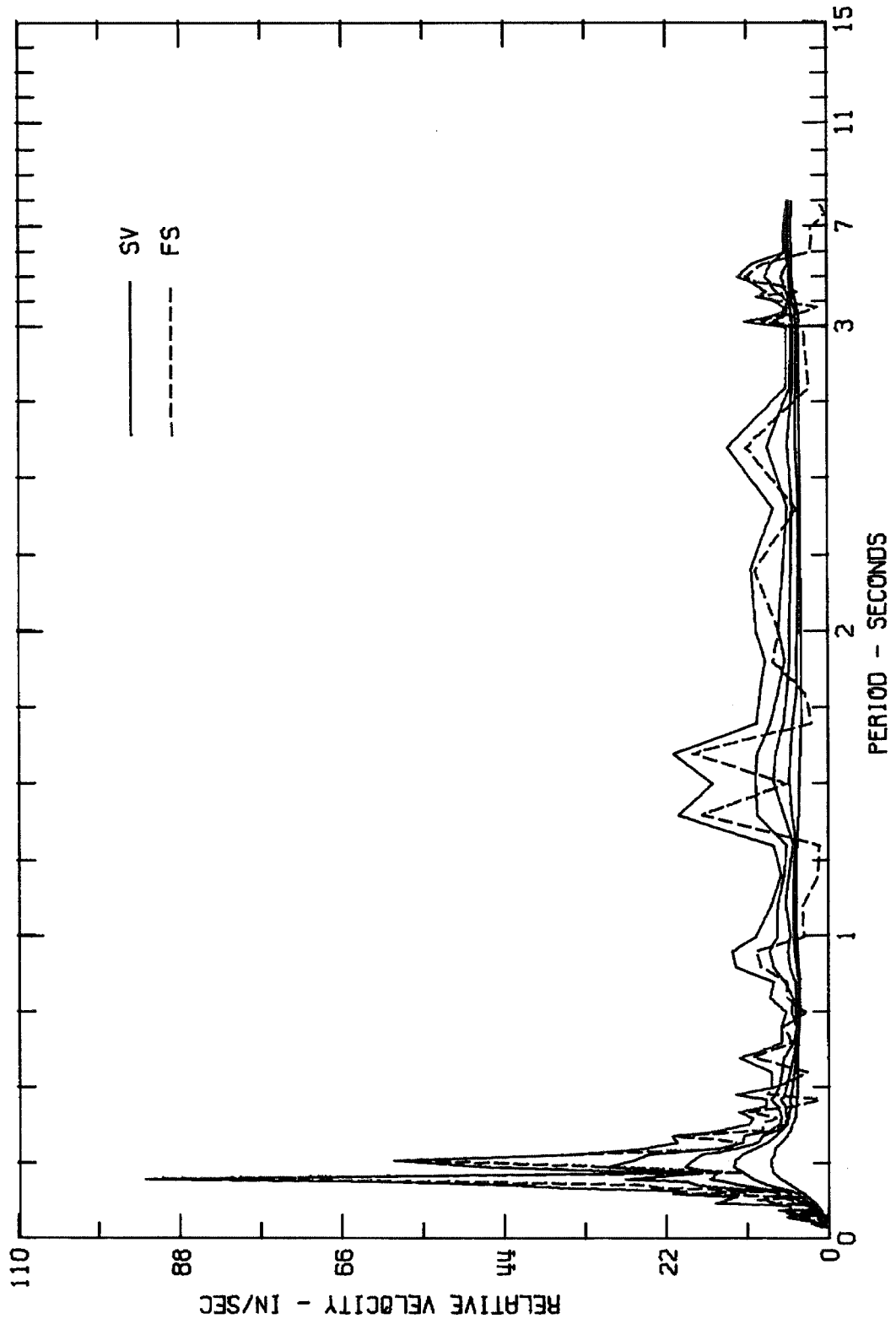


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND C FOR SA

DAMPING = 0 PER CENT    DAMPING = 2 PER CENT    DAMPING = 5 PER CENT    DAMPING = 10 PER CENT    DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	177-1	241-2	197-1	439-3	212-1	188-2	153-1	343-3	158-1	185-2	142-1	338-3	155-1	175-2	133-1	323-3	146-1
0.80	895-2	334-2	244-1	534-3	252-1	297-2	202-1	475-3	233-1	266-2	194-1	427-3	209-1	243-2	170-1	395-3	191-1
0.85	343-1	637-2	458-1	502-3	471-1	506-2	370-1	717-3	374-1	418-2	291-1	595-3	309-1	336-2	215-1	485-3	248-1
0.90	160-1	902-2	632-1	113-2	629-1	736-2	510-1	929-3	514-1	576-2	382-1	732-3	402-1	425-2	259-1	550-3	297-1
0.95	128 0	196-1	129 0	222-2	130 0	101-1	646-1	115-2	671-1	717-2	434-1	817-3	474-1	490-2	294-1	568-3	324-1
1.00	119 0	233-1	144 0	238-2	146 0	125-1	780-1	128-2	786-1	781-2	492-1	803-3	490-1	519-2	338-1	541-3	326-1
1.10	499-1	112-1	651-1	952-3	643-1	903-2	536-1	765-3	516-1	673-2	420-1	571-3	384-1	481-2	328-1	414-3	274-1
1.20	644-1	140-1	735-1	995-3	733-1	879-2	472-1	625-3	460-1	573-2	305-1	409-3	300-1	388-2	255-1	284-3	203-1
1.30	385-1	890-2	436-1	539-3	430-1	551-2	289-1	337-3	269-1	446-2	237-1	271-3	215-1	339-2	191-1	209-3	163-1
1.40	826-2	465-2	231-1	242-3	208-1	362-2	192-1	189-3	162-1	321-2	175-1	168-3	144-1	283-2	165-1	150-3	127-1
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1.60	199-1	634-2	259-1	253-3	249-1	378-2	162-1	151-3	148-1	274-2	137-1	110-3	107-1	258-2	139-1	105-3	101-1
1.70	955-2	643-2	252-1	227-3	237-1	483-2	189-1	171-3	178-1	356-2	147-1	127-3	131-1	290-2	137-1	105-3	107-1
1.80	214-1	726-2	255-1	229-3	253-1	430-2	170-1	136-3	150-1	363-2	149-1	115-3	126-1	296-2	135-1	969-4	103-1
1.90	399-2	358-2	146-1	101-3	118-1	338-2	140-1	959-4	111-1	314-2	135-1	901-4	104-1	280-2	132-1	829-4	928-2
2.00	133-1	494-2	159-1	126-3	155-1	360-2	134-1	922-4	113-1	317-2	132-1	818-4	998-2	271-2	129-1	713-4	851-2
2.20	344-1	120-1	344-1	254-3	344-1	666-2	179-1	140-3	190-1	431-2	133-1	917-4	123-1	291-2	120-1	635-4	832-2
2.40	232-1	887-2	237-1	157-3	232-1	712-2	198-1	126-3	186-1	534-2	160-1	954-4	139-1	356-2	133-1	653-4	934-2
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2.80	166-1	873-2	213-1	113-3	196-1	680-2	173-1	888-4	152-1	585-2	153-1	770-4	131-1	454-2	130-1	616-4	102-1
3.00	176-1	958-2	220-1	108-3	200-1	641-2	179-1	729-4	134-1	543-2	161-1	623-4	113-1	431-2	135-1	503-4	902-2
3.20	305-2	763-2	215-1	762-4	149-1	684-2	153-1	684-4	134-1	585-2	167-1	588-4	114-1	515-2	136-1	531-4	101-1
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4.40	124-1	106-1	206-1	563-4	152-1	893-2	192-1	472-4	127-1	799-2	174-1	426-4	114-1	679-2	150-1	375-4	969-2
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4.80	678-2	854-2	165-1	379-4	111-1	808-2	160-1	359-4	105-1	740-2	152-1	330-4	968-2	646-2	139-1	299-4	845-2
5.00	855-2	846-2	151-1	346-4	106-1	802-2	147-1	328-4	100-1	733-2	141-1	301-4	921-2	630-2	131-1	269-4	792-2
5.50	112-1	112-1	151-1	379-4	128-1	879-2	143-1	297-4	100-1	785-2	137-1	268-4	897-2	674-2	127-1	238-4	747-2
6.00	953-2	103-1	153-1	293-4	108-1	904-2	146-1	257-4	947-2	788-2	136-1	226-4	825-2	674-2	130-1	212-4	706-2
6.50	667-2	102-1	158-1	248-4	993-2	822-2	153-1	199-4	795-2	753-2	146-1	187-4	728-2	666-2	138-1	182-4	644-2
7.00	694-2	963-2	166-1	201-4	864-2	885-2	160-1	185-4	794-2	786-2	152-1	167-4	706-2	659-2	143-1	148-4	592-2
7.50	781-2	101-1	164-1	184-4	848-2	853-2	159-1	121-4	715-2	770-2	153-1	142-4	645-2	657-2	144-1	131-4	550-2
8.00	882-2	894-2	156-1	142-4	702-2	756-2	153-1	125-4	594-2	699-2	148-1	114-4	549-2	618-2	142-1	110-4	4852
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9.00	981-2	104-1	164-1	184-4	848-2	853-2	159-1	121-4	715-2	770-2	153-1	142-4	645-2	657-2	144-1	131-4	550-2
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

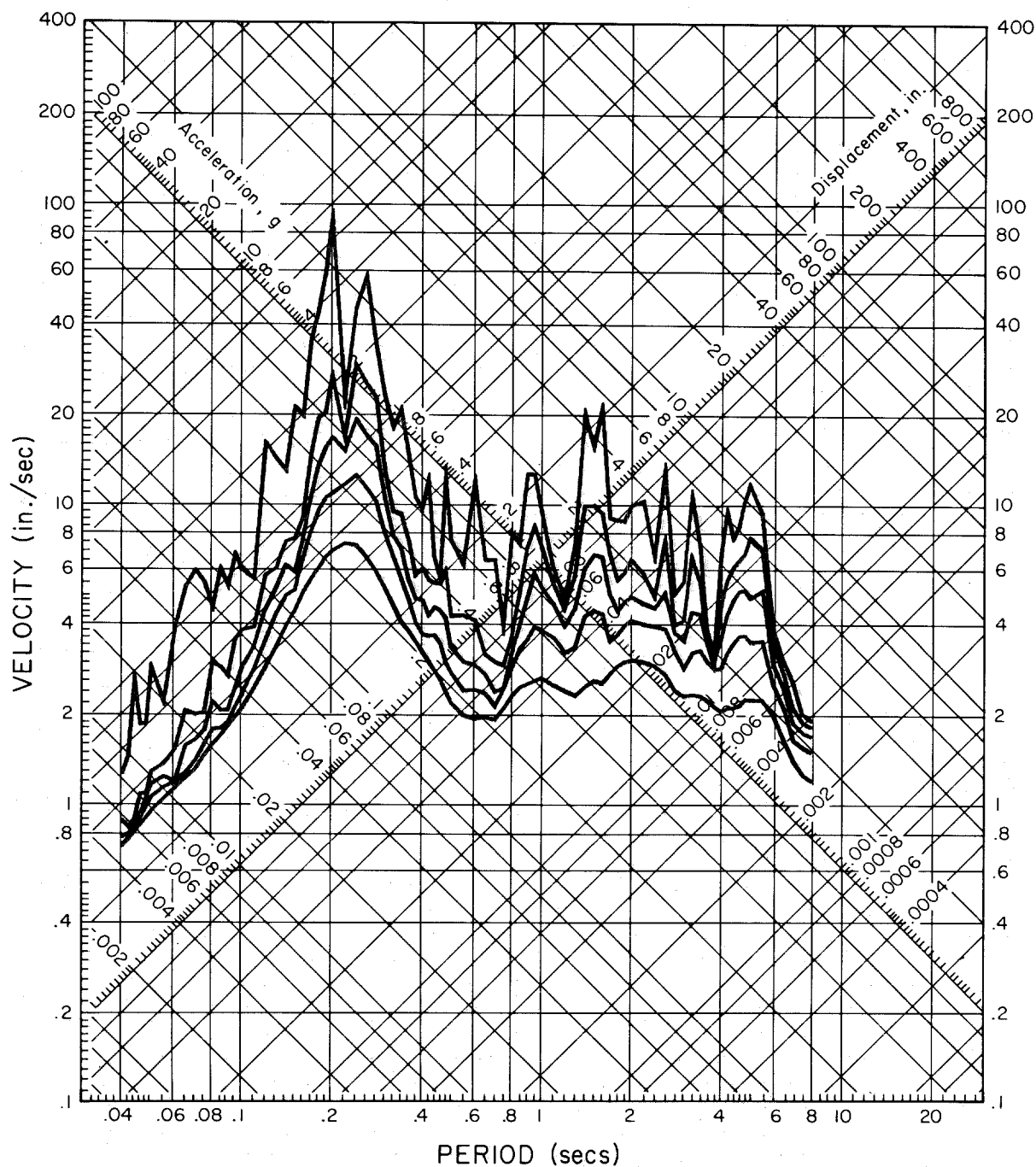


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII136 71.128.0 1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIII136 71.128.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1800 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. CCMP DCWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND C FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	897-3	813-5	116-2	519-3	127-2	565-5	374-3	360-3	887-3	498-5	301-3	317-3	782-3	468-5	277-3	299-3	735-3
0.042	359-3	978-5	978-3	567-3	146-2	563-5	355-3	326-3	842-3	539-5	331-3	312-3	806-3	521-5	315-3	302-3	779-3
0.044	122-2	184-4	203-2	972-3	262-2	632-5	466-3	334-3	903-3	598-5	411-3	316-3	854-3	582-5	362-3	307-3	831-3
0.046	788-3	136-4	133-2	660-3	186-2	799-5	514-3	381-3	109-2	685-5	481-3	331-3	936-3	663-5	407-3	320-3	906-3
0.048	537-3	143-4	143-2	636-3	187-2	835-5	678-3	371-3	109-2	812-5	557-3	359-3	106-2	756-5	461-3	337-3	980-3
0.050	198-2	230-4	251-2	944-3	290-2	103-4	761-3	420-3	137-2	935-5	605-3	380-3	117-2	847-5	503-3	346-3	106-2
0.055	422-3	194-4	182-2	656-3	221-2	119-4	101-2	405-3	137-2	108-4	760-3	368-3	124-2	100-4	582-3	341-3	114-2
0.060	243-2	372-4	344-2	105-2	390-2	147-4	103-2	420-3	154-2	114-4	711-3	324-3	119-2	114-4	633-3	324-3	119-2
0.065	284-2	556-4	463-2	134-2	537-2	215-4	158-2	520-3	208-2	163-4	110-2	395-3	158-2	133-4	793-3	325-3	128-2
0.070	538-2	678-4	578-2	141-2	608-2	224-4	140-2	470-3	201-2	184-4	116-2	383-3	165-2	156-4	893-3	331-3	140-2
0.075	454-2	659-4	528-2	119-2	552-2	245-4	130-2	444-3	205-2	213-4	113-2	390-3	178-2	192-4	974-3	350-3	161-2
0.080	246-3	579-4	337-2	525-3	454-2	381-4	184-2	609-3	299-2	283-4	148-2	452-3	222-2	229-4	114-2	367-3	180-2
0.085	398-2	836-4	593-2	118-2	617-2	394-4	227-2	558-3	291-2	281-4	163-2	397-3	208-2	244-4	124-2	345-3	180-2
0.090	118-2	763-4	473-2	563-3	532-2	387-4	211-2	490-3	270-2	298-4	170-2	377-3	208-2	273-4	135-2	344-3	150-2
0.095	603-2	103-3	685-2	117-2	687-2	543-4	285-2	616-3	359-2	376-4	201-2	425-3	248-2	323-4	142-2	371-3	214-2
0.100	185-2	970-4	523-2	992-3	609-2	611-4	282-2	629-3	384-2	459-4	199-2	471-3	288-2	373-4	155-2	384-3	234-2
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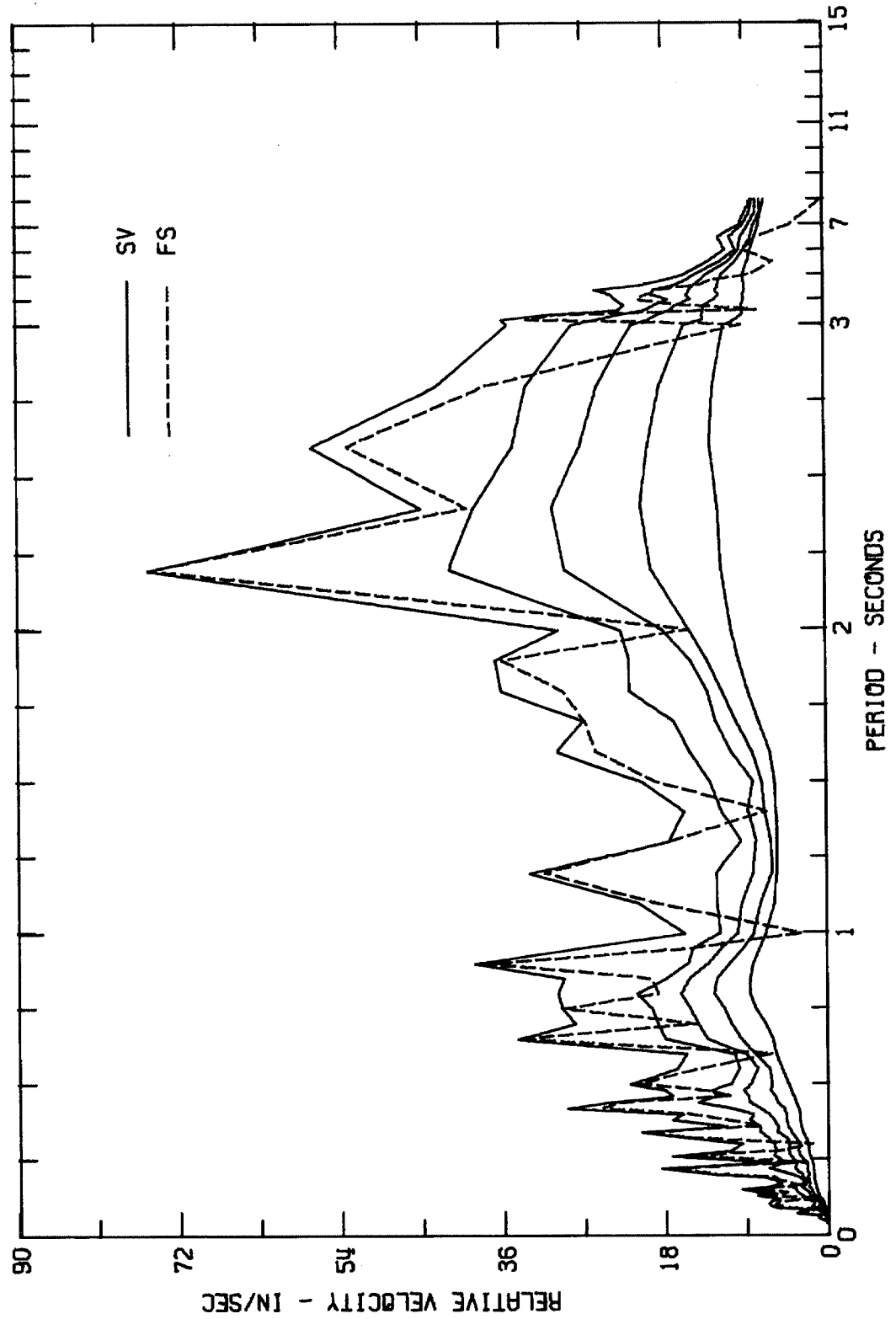
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1.10	343-2	107-2	780-2	911-4	615-2	962-3	691-2	815-4	549-2	820-3	584-2	696-4	468-2	638-3	479-2	548-4	364-2	444-3	439-2	453-4	254-2
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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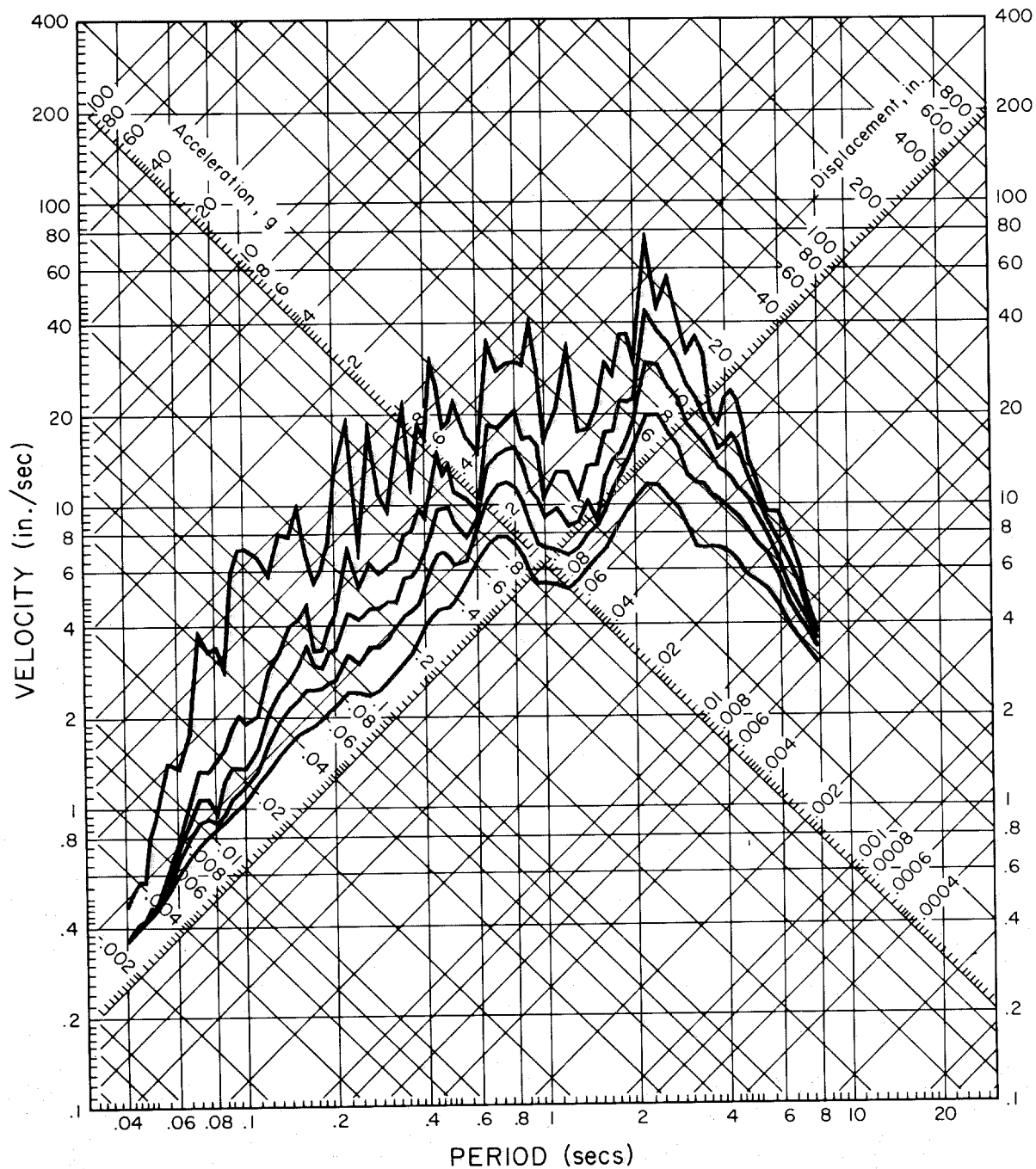


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII137 71.135.0 15910 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP S81E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



III11137 71.135.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

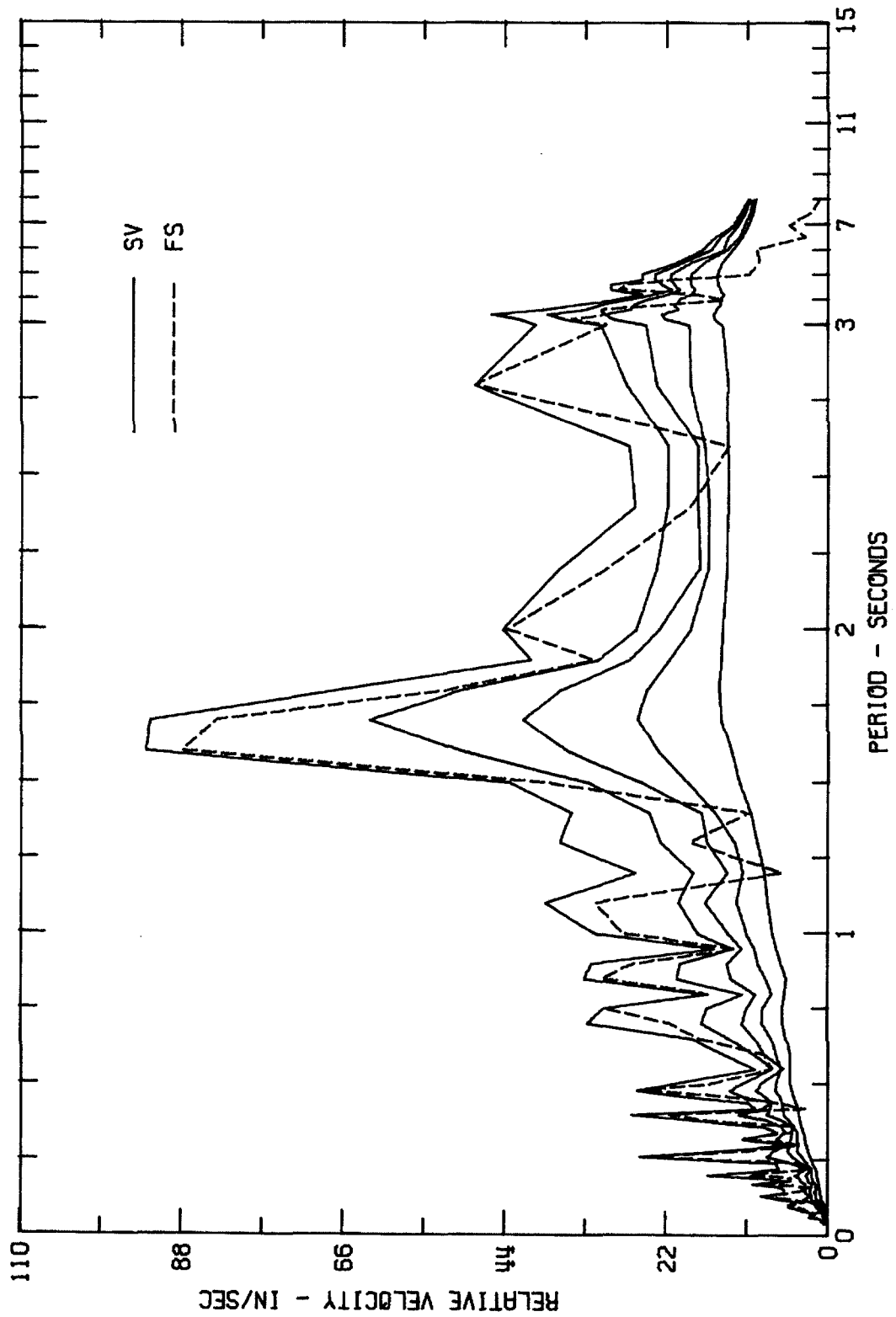
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O.042	139-3	350-5	229-3	203-3	524-3	260-5	122-3	151-3	390-3	254-5	113-3	147-3	379-3	252-5	101-3	146-3	378-3
O.044	103-3	396-5	250-3	209-3	566-3	287-5	120-3	151-3	410-3	280-5	119-3	148-3	400-3	279-5	117-3	147-3	395-3
O.046	180-3	411-5	221-3	199-3	562-3	358-5	151-3	149-3	421-3	307-5	130-3	148-3	420-3	307-5	128-3	148-3	419-3
O.048	403-3	618-5	436-3	274-3	809-3	354-5	158-3	157-3	464-3	340-5	143-3	151-3	445-3	336-5	140-3	149-3	440-3
O.050	684-3	732-5	770-3	295-3	920-3	368-5	195-3	150-3	463-3	366-5	170-3	150-3	460-3	365-5	153-3	149-3	459-3
O.055	117-2	122-4	125-2	415-2	140-2	531-5	335-3	179-3	606-3	474-5	243-3	160-3	542-3	467-5	202-3	159-3	534-3
O.060	911-3	129-4	117-2	368-3	135-2	748-5	382-3	212-3	783-3	696-5	321-3	198-3	729-3	638-5	257-3	181-3	668-3
O.065	934-3	182-4	155-2	440-3	176-2	107-4	552-3	260-3	103-2	925-5	421-3	225-3	894-3	818-5	321-3	197-3	791-3
O.070	306-2	420-4	362-2	876-3	377-2	147-4	789-3	306-3	132-2	119-4	536-3	248-3	107-2	990-5	369-3	207-3	889-3
O.075	325-2	391-4	328-2	712-3	328-2	157-4	945-3	286-3	131-2	127-4	602-3	233-3	106-2	109-4	496-3	198-3	916-3
O.080	199-2	431-4	319-2	689-3	339-2	184-4	115-2	294-3	144-2	120-4	802-3	195-3	950-3	113-4	599-3	183-3	891-3
O.085	139-2	386-4	249-2	546-3	285-2	212-4	124-2	301-3	156-2	166-4	895-3	233-3	122-2	128-4	688-3	183-3	953-3
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O.095	550-2	107-3	643-2	121-2	709-2	306-4	151-2	348-3	202-2	204-4	124-2	231-3	135-2	169-4	818-3	194-3	112-2
O.100	610-2	114-3	670-2	117-2	720-2	303-4	178-2	311-3	190-2	215-4	112-2	220-3	135-2	189-4	798-3	194-3	118-2
O.110	559-2	117-3	654-2	993-3	671-2	353-4	171-2	301-3	201-2	276-4	118-2	237-3	158-2	236-4	893-3	197-3	133-2
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O.180	564-2	176-3	602-2	557-3	616-2	951-4	293-2	301-3	332-2	830-4	251-2	263-3	289-2	710-4	224-2	228-3	248-2
O.190	606-2	228-3	720-2	648-3	756-2	119-3	341-2	338-3	393-2	989-4	291-2	283-3	327-2	780-4	234-2	226-3	257-2
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

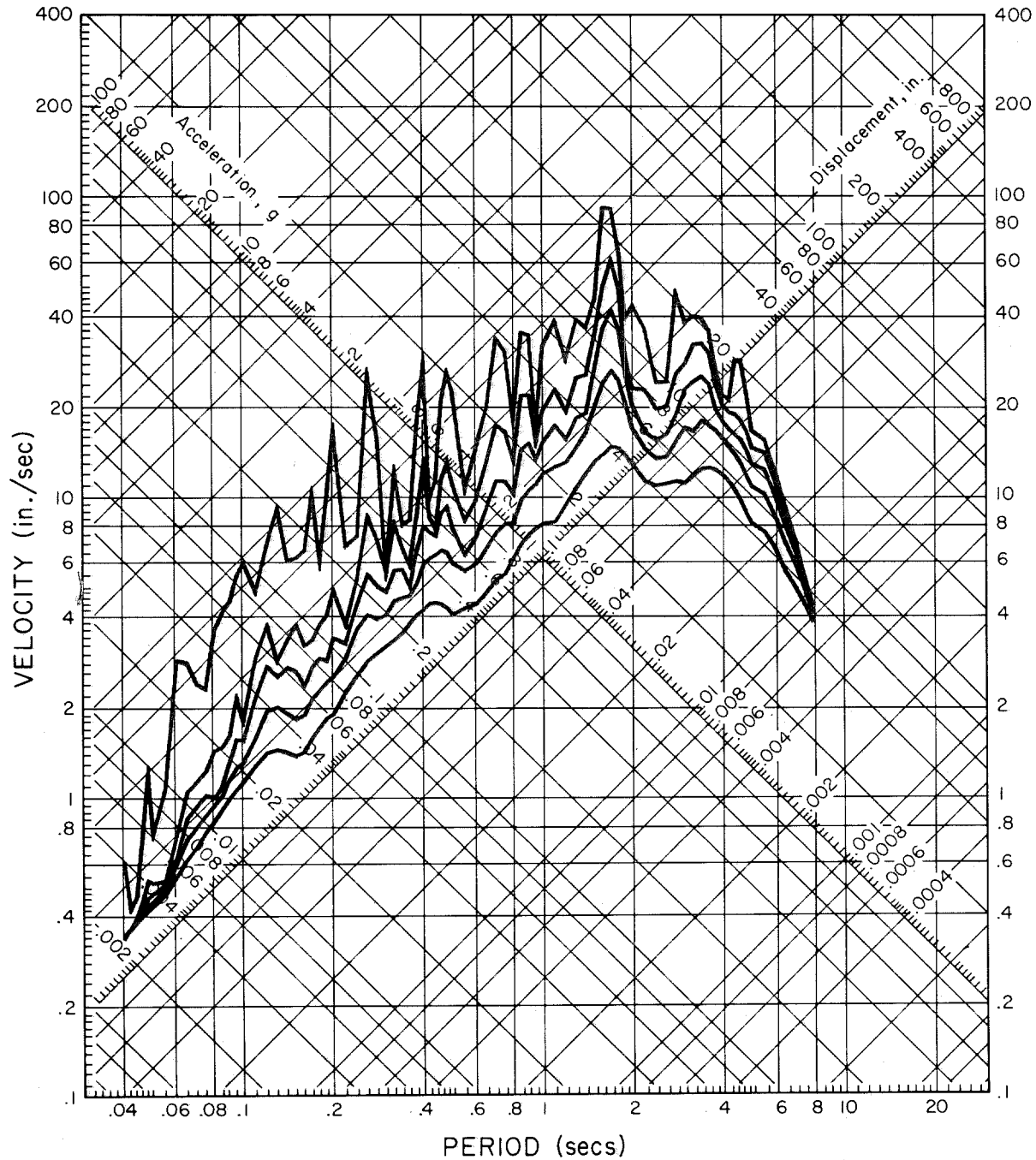


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IIII137 71.135.0 15910 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP S09H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII137 71.135.0 15910 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP SO9W

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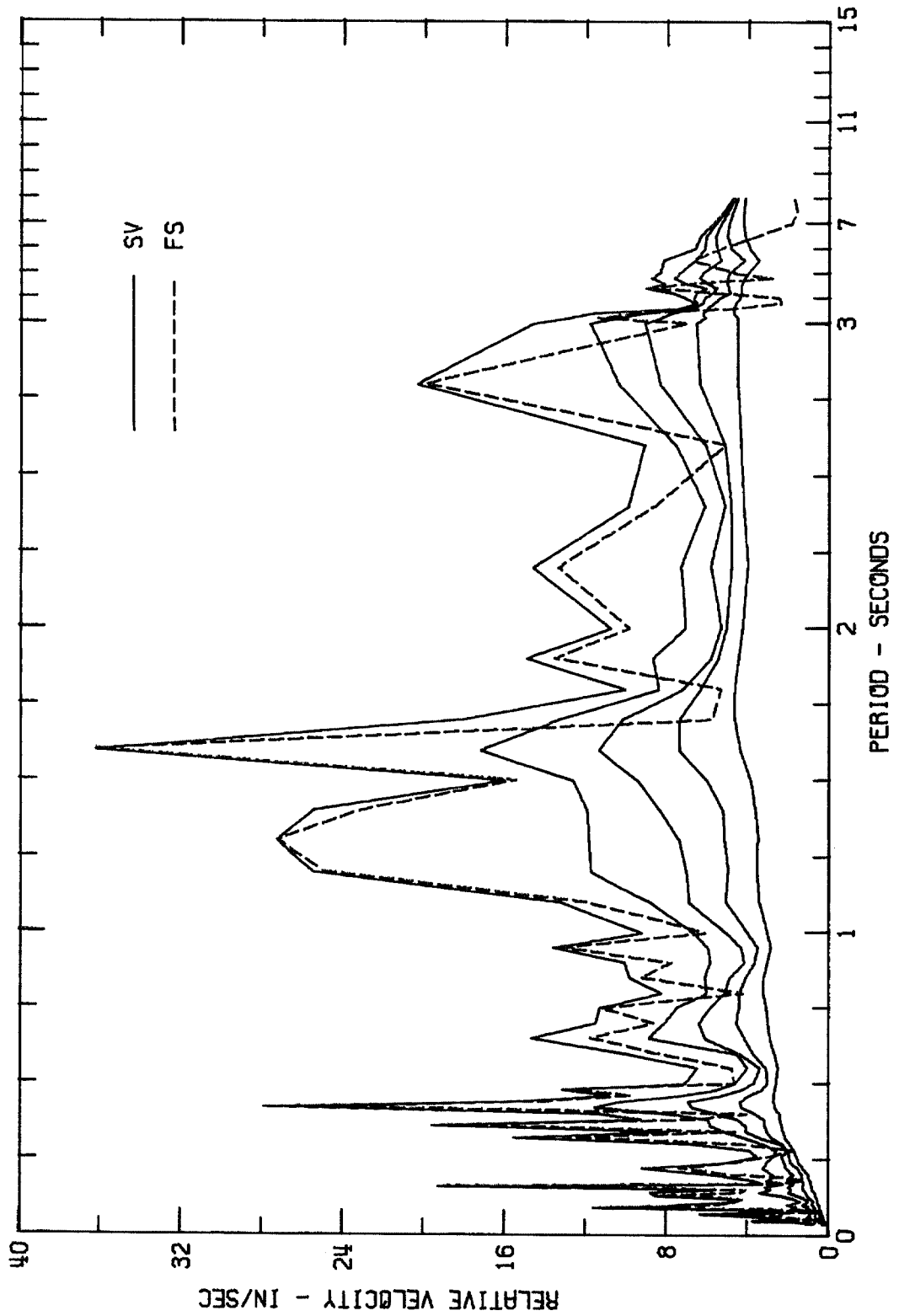
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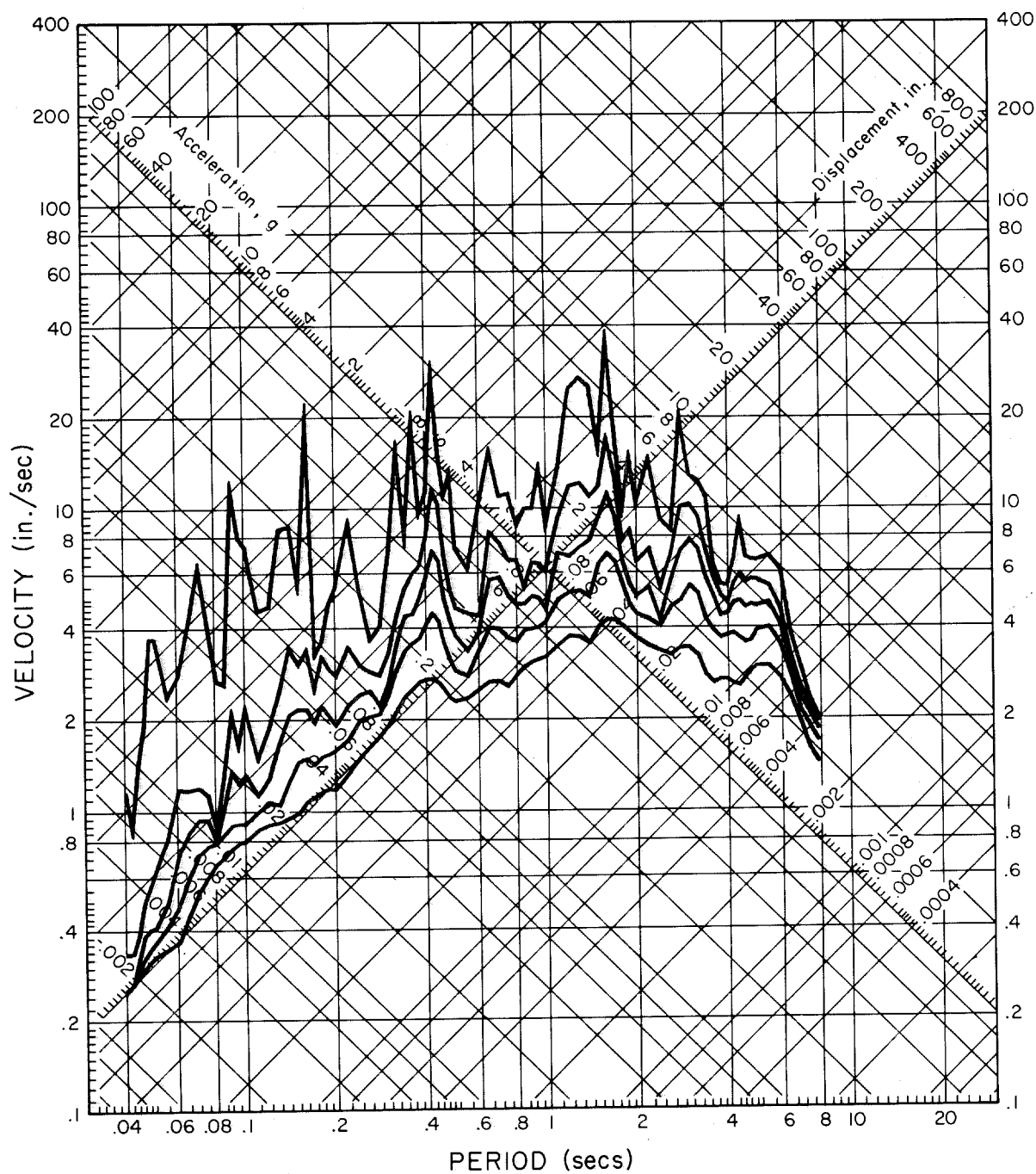
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111137 71.135.0 15910 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



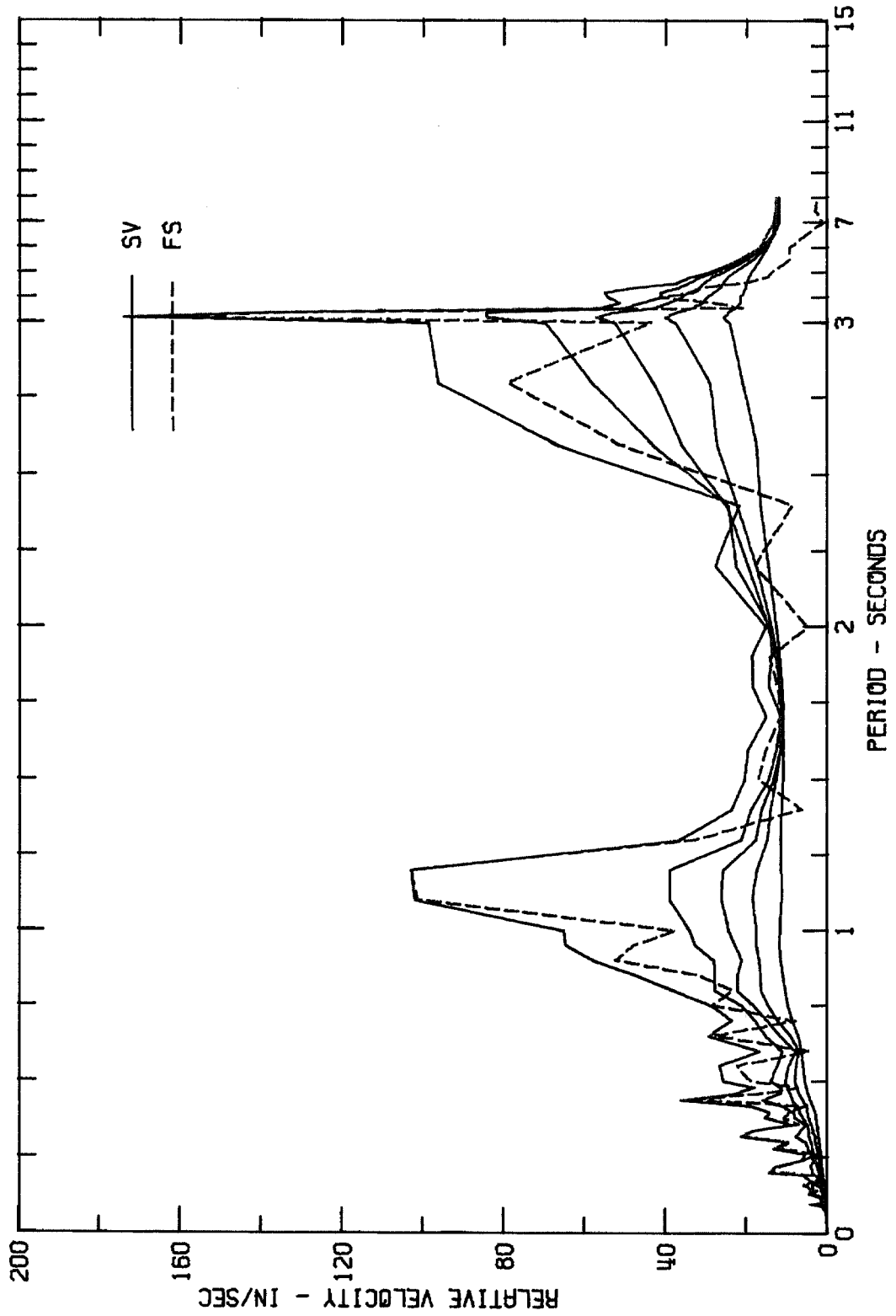
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.200	496-2	17																																															



RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111138 71.136.0 15910 VENTURA BLVD., 9TH FLOOR, LOS ANGELES, CAL. COMP S81E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

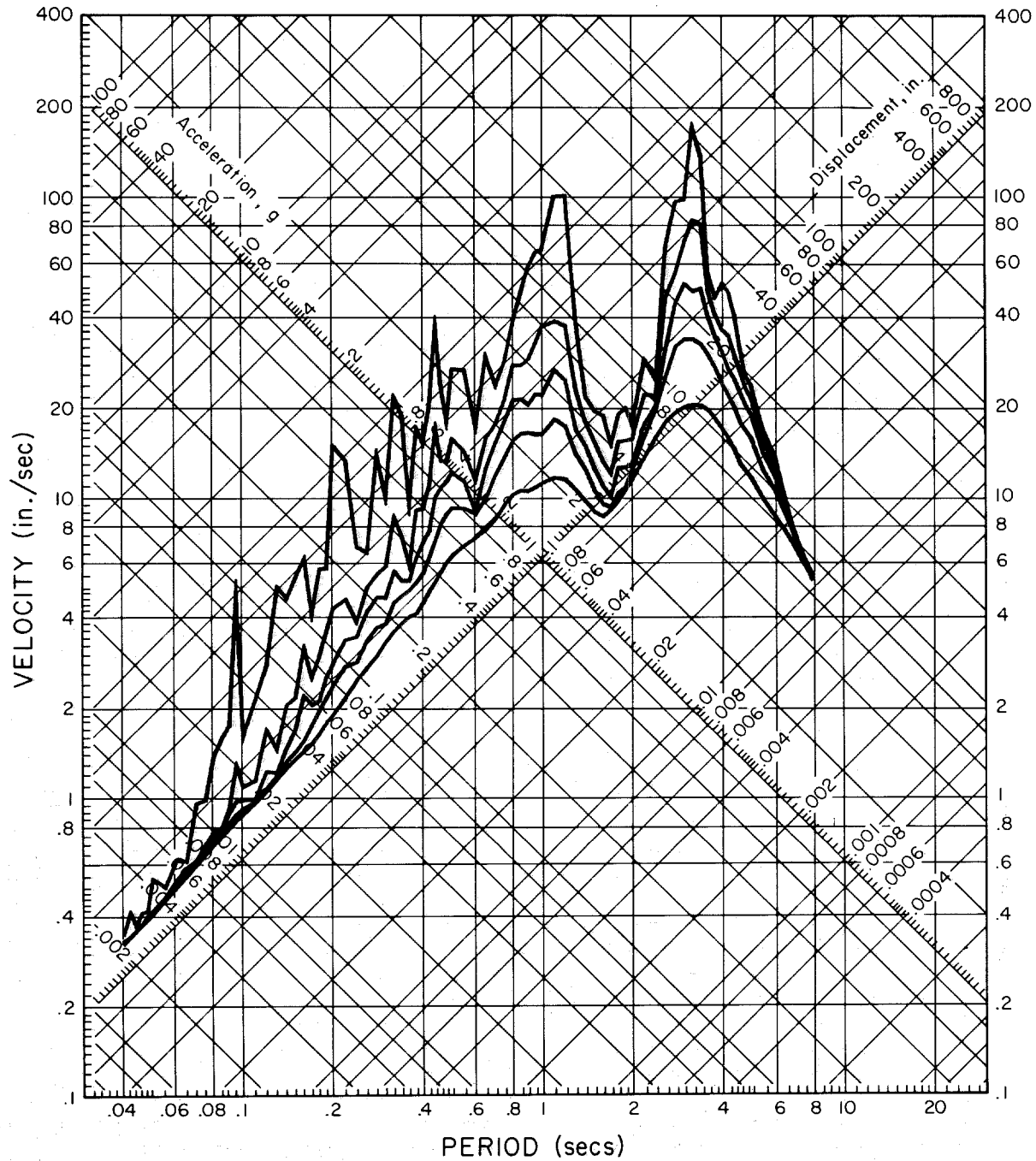


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII138 71.136.0 15910 VENTURA BLVD., 9TH FLOOR, LOS ANGELES, CAL. COMP S81E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.044	819-4	260-5	891-4	137-3	371-3	251-5	556-4	132-3	359-3	250-5	514-4	132-3	358-3	251-5	495-4	132-3	359-3	251-5	480-4	132-3	359-3
0.046	453-4	303-5	110-3	146-3	414-3	276-5	540-4	133-3	377-3	275-5	540-4	133-3	376-3	275-5	540-4	133-3	376-3	275-5	525-4	133-3	375-3
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0.050	115-3	427-5	244-3	174-3	537-3	334-5	778-4	136-3	420-3	330-5	696-4	135-3	414-3	327-5	659-4	134-3	412-3	326-5	623-4	133-3	410-3
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0.060	160-3	590-5	240-3	167-3	618-3	507-5	135-3	144-3	531-3	487-5	113-3	138-3	510-3	486-5	979-4	138-3	509-3	480-5	933-4	137-3	503-3
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IIII138 71.136.0 15910 VENTURA BLVD., 9TH FLOOR, LOS ANGELES, CAL. COMP S81E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

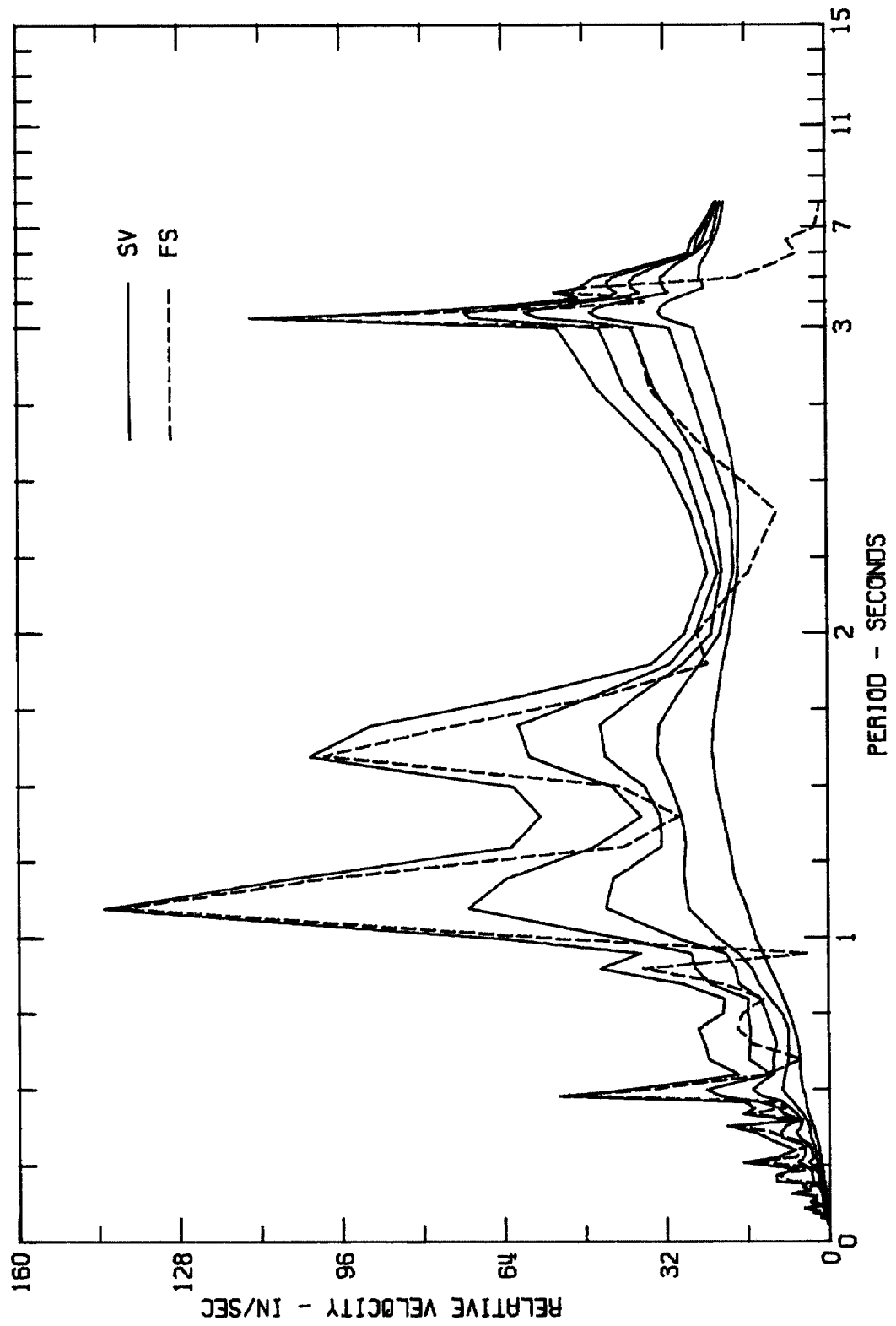
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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
0.75	285-1	346-2	288-1	630-3	290-1	258-2	212-1	470-3	216-1	219-2	183-1	401-3	183-1	165-2	147-1	306-3	138-1	114-2	990-2	221-3	961-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

# RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII138 71.136.0 15910 VENTURA BLVD., 9TH FLOOR, LOS ANGELES, CAL. COMP 509W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

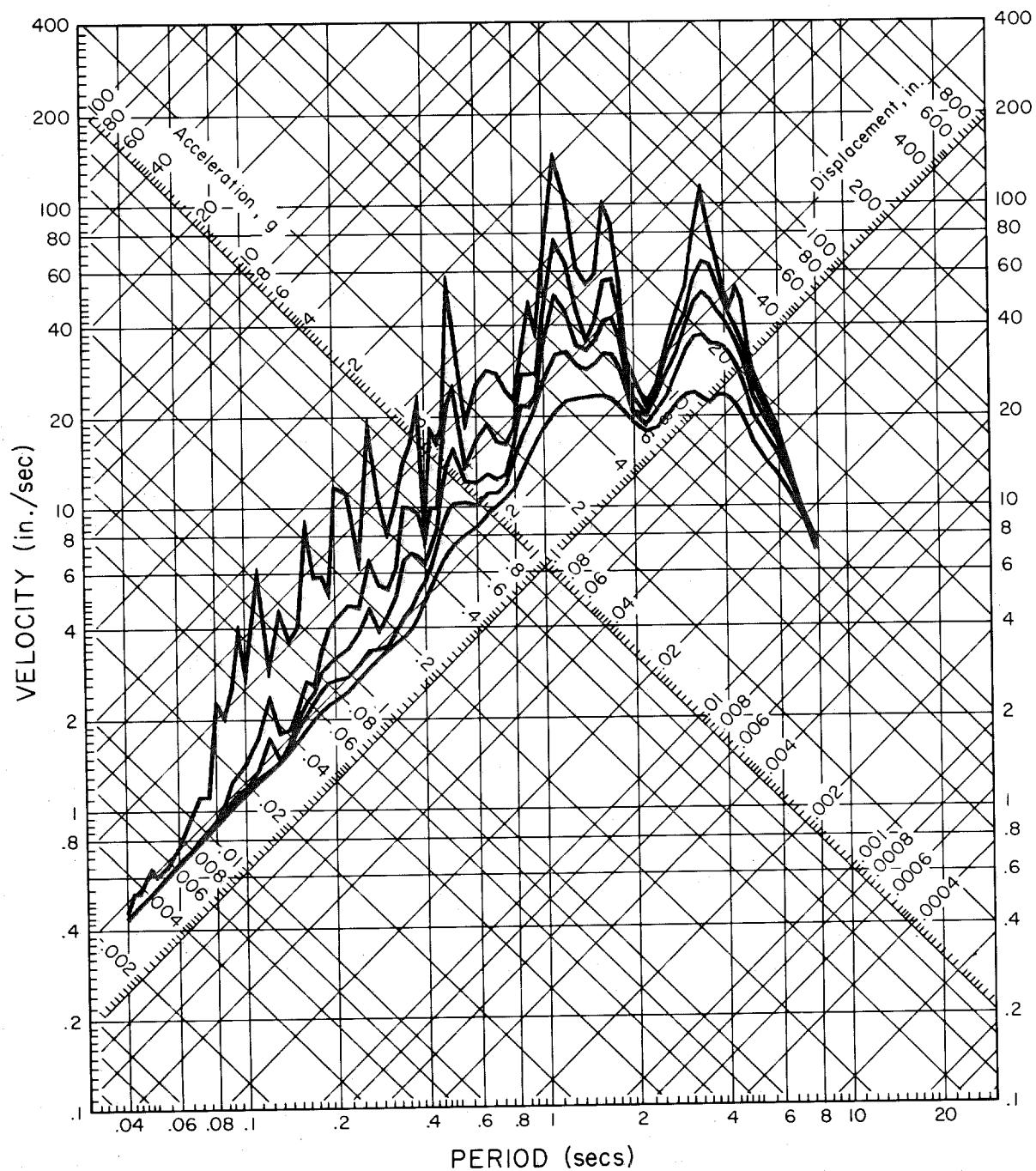


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII138 71.136.0 15910 VENTURA BLVD., 9TH FLOOR, LOS ANGELES, CAL. COMP S09W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FCR PER, IN/SEC FCR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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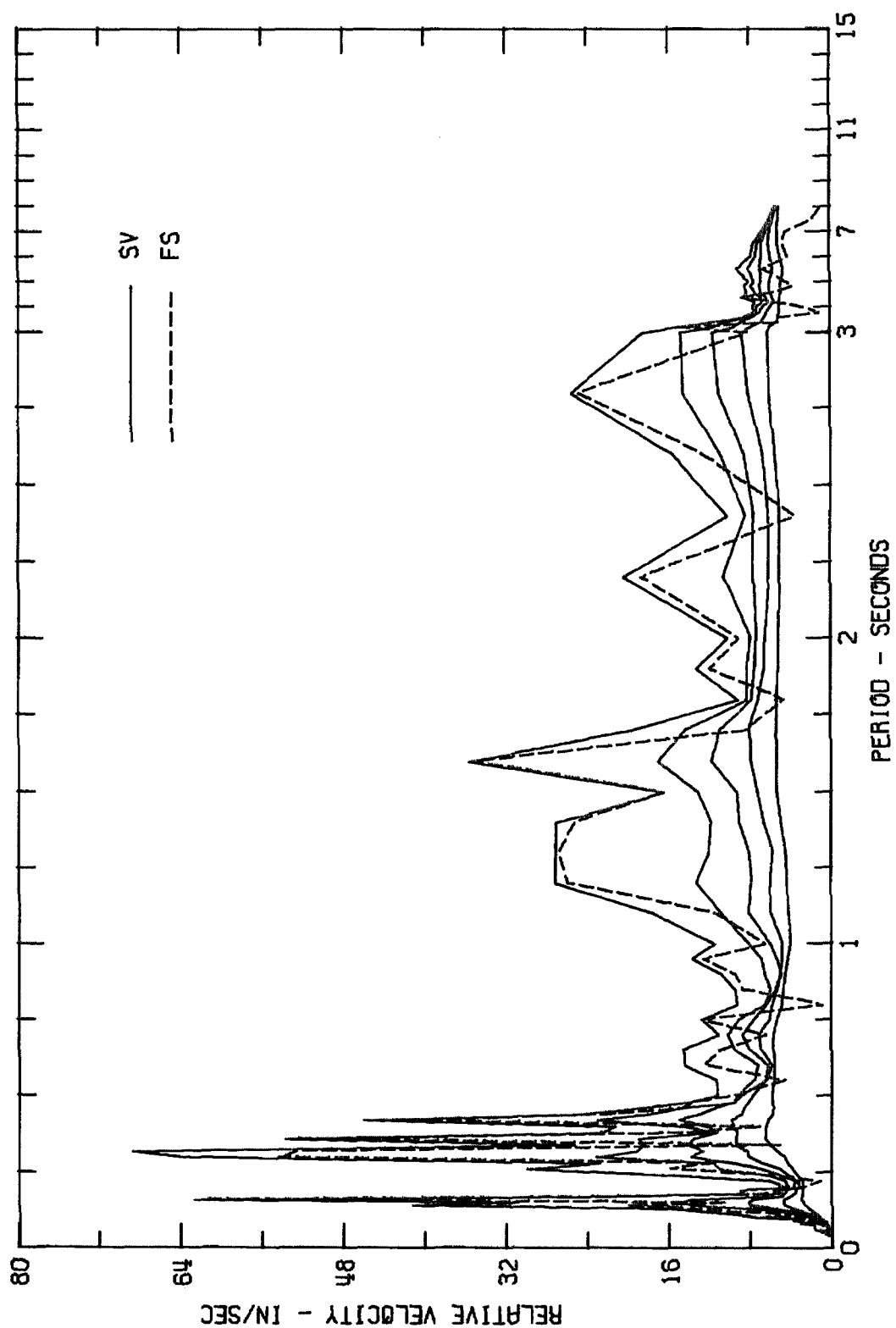
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## RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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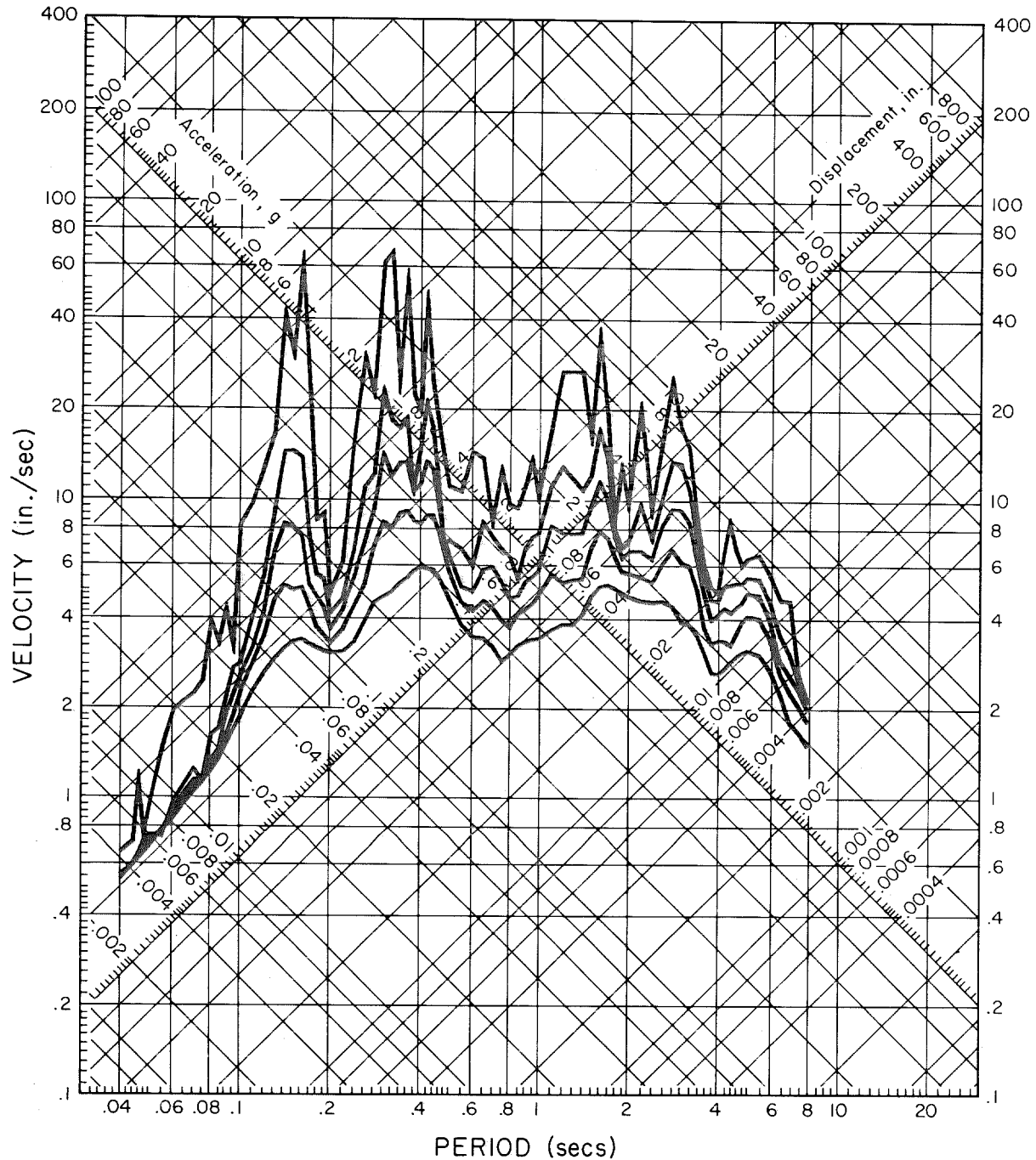


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SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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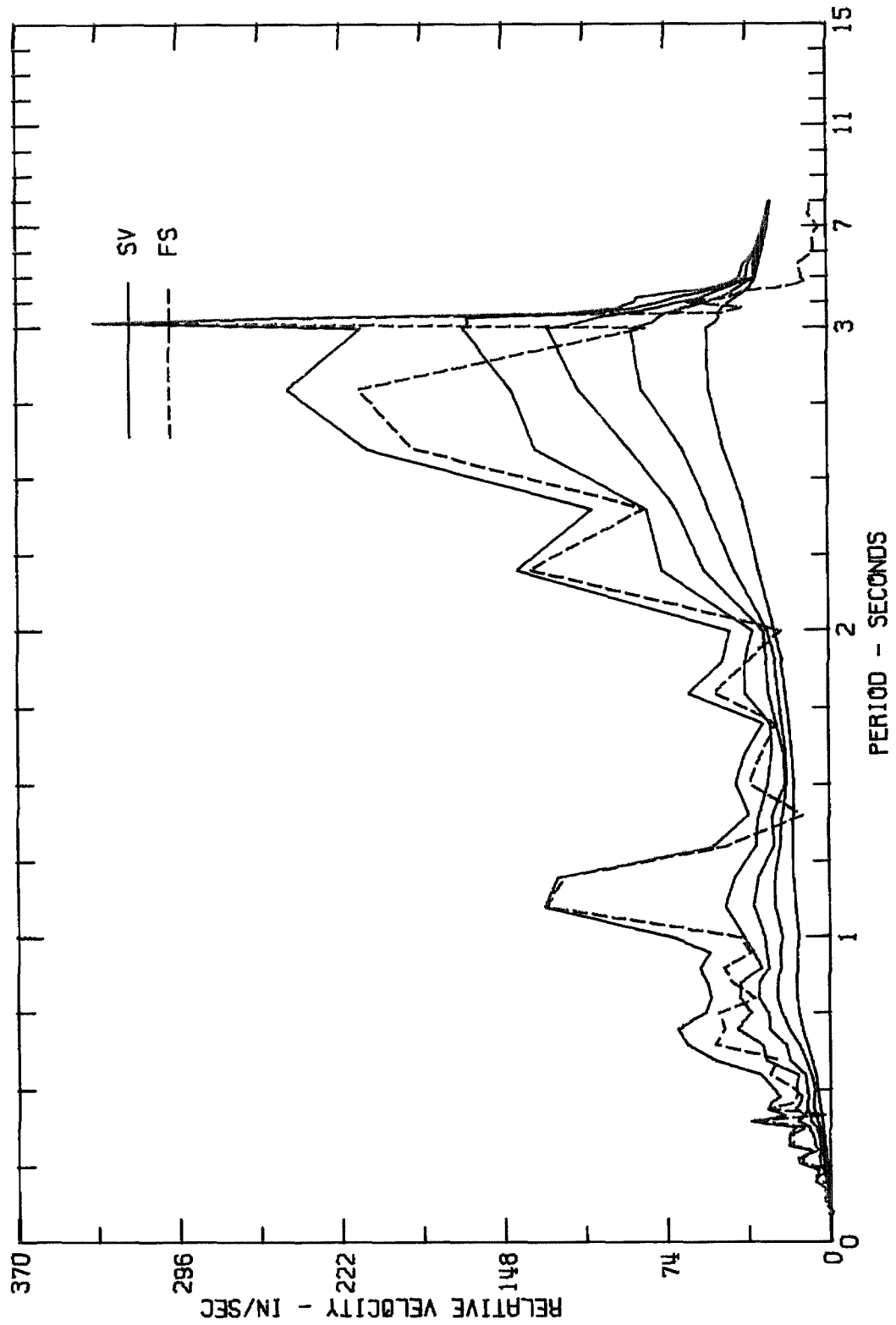
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0.200	275-2	155-3	450-2	397-3	487-2	133-3	420-2	337-3	418-2	117-3	377-2	301-3	277-3	331-2	980-4	280-2	261-3
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0.280	119-1	101-2	227-1	132-2	227-1	550-3	115-1	715-3	123-1	123-1	421-3	953-2	545-3	946-2	202-3	438-2	283-3
0.300	545-1	302-2	637-1	343-2	633-1	111-2	232-1	127-2	234-1	680-3	139-1	780-3	142-1	407-3	819-2	477-3	854-2
0.320	523-1	350-2	688-1	350-2	688-1	946-3	191-1	942-3	185-1	616-3	126-1	620-3	426-3	814-2	252-3	538-2	272-3
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0.360	533-1	311-2	537-1	246-2	544-1	108-2	189-1	865-3	190-1	768-3	134-1	607-3	134-1	532-3	941-2	429-3	929-2
0.380	144-1	135-2	223-1	962-3	224-1	664-3	117-1	473-3	109-1	652-3	112-1	459-3	107-1	521-3	925-2	383-3	862-2
0.400	711-2	126-2	212-1	809-3	198-1	952-3	146-1	610-3	149-1	728-3	121-1	465-3	114-1	536-3	974-2	351-3	842-2
0.420	421-1	307-2	461-1	178-2	459-1	141-2	231-1	822-3	212-1	905-3	150-1	528-3	361-3	896-2	398-3	623-2	255-3
0.440	222-1	136-2	250-1	930-3	251-1	123-2	180-1	652-3	176-1	891-3	128-1	479-3	337-3	897-2	413-3	577-2	243-3
0.460	147-1	136-2	188-1	661-3	186-1	892-3	145-1	433-3	121-1	733-3	113-1	360-3	292-3	794-2	408-3	573-2	225-3
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0.550	462-2	944-3	113-1	219-3	107-1	606-3	753-2	205-3	692-2	451-3	644-2	155-3	138-3	457-2	336-3	566-2	180-3
0.600	126-1	139-2	144-1	395-3	145-1	578-3	722-2	165-3	605-2	477-3	627-2	136-3	120-3	429-2	332-3	561-2	103-3
0.650	108-1	143-2	146-1	347-3	138-1	884-3	944-2	214-3	854-2	612-3	806-2	150-3	119-3	462-2	358-3	572-2	984-4
0.700	632-2	949-3	109-1	198-3	852-2	842-3	101-1	176-3	756-2	670-3	874-2	140-3	105-3	437-2	361-3	566-2	865-4



THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.80	740-3	124-2	920-2	198-2	576-2	830-3	649-2	132-3	652-2	600-3	634-2	964-4	471-2	479-3	579-2	779-4	376-2	389-3	482-2	664-4	306-2
0.85	878-2	128-2	948-2	182-3	952-2	742-3	594-2	103-3	549-2	650-3	551-2	920-4	480-2	564-3	530-2	813-4	417-2	440-3	467-2	667-4	325-2
0.90	948-2	161-2	108-1	203-3	112-1	998-3	657-2	126-3	697-2	773-3	492-2	987-4	540-2	622-3	498-2	802-4	434-2	482-3	449-2	659-4	336-2
0.95	126-1	208-2	137-1	236-3	138-1	115-2	688-2	130-3	761-2	849-3	542-2	968-4	561-2	686-3	482-2	790-4	453-2	518-3	427-2	641-4	343-2
1.00	650-2	164-2	114-1	168-3	103-1	124-2	809-2	127-3	782-2	938-3	605-2	967-4	589-2	772-3	482-2	807-4	485-2	550-3	400-2	631-4	345-2
1.10	114-1	301-2	176-1	254-3	172-1	197-2	108-1	166-3	112-1	145-2	823-2	123-3	830-2	100-2	602-2	867-4	572-2	647-3	431-2	634-4	369-2
1.20	259-1	516-2	271-1	367-3	270-1	249-2	132-1	177-3	130-1	150-2	779-2	107-3	787-2	102-2	596-2	738-4	534-2	737-3	438-2	579-4	386-2
1.30	268-1	561-2	270-1	339-3	271-1	246-2	119-1	149-3	118-1	162-2	813-2	988-4	783-2	113-2	572-2	710-4	545-2	800-3	448-2	531-4	386-2
1.40	252-1	603-2	270-1	314-3	270-1	243-2	117-1	127-3	109-1	175-2	904-2	920-4	786-2	122-2	671-2	655-4	551-2	933-3	498-2	513-4	418-2
1.50	164-1	393-2	164-1	178-3	164-1	295-2	131-1	134-3	123-1	233-2	931-2	106-3	976-2	168-2	734-2	774-4	706-2	115-2	538-2	551-4	483-2
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2.20	186-1	717-2	203-1	151-3	204-1	343-2	105-1	726-4	981-2	240-2	763-2	510-4	685-2	196-2	604-2	422-4	560-2	163-2	499-2	385-4	465-2
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2.60	127-1	651-2	156-1	986-4	154-1	421-2	109-1	647-4	103-1	348-2	862-2	530-4	843-2	259-2	675-2	401-4	626-2	192-2	554-2	318-4	464-2
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3.80	110-2	312-2	741-2	221-4	516-2	282-2	727-2	200-4	467-2	243-2	691-2	174-4	402-2	202-2	619-2	156-4	334-2	161-2	503-2	148-4	266-2
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4.20	560-2	458-2	740-2	265-4	685-2	349-2	669-2	203-4	523-2	294-2	600-2	174-4	440-2	227-2	551-2	141-4	340-2	184-2	499-2	135-4	276-2
4.40	857-2	602-2	872-2	318-4	860-2	369-2	680-2	196-4	527-2	298-2	633-2	162-4	425-2	232-2	572-2	133-4	331-2	202-2	495-2	135-4	289-2
4.60	556-2	508-2	818-2	245-4	694-2	391-2	750-2	190-4	534-2	326-2	681-2	162-4	445-2	265-2	596-2	135-4	363-2	221-2	487-2	134-4	302-2
4.80	372-2	470-2	843-2	208-4	615-2	407-2	777-2	181-4	533-2	350-2	698-2	157-4	458-2	301-2	605-2	139-4	394-2	238-2	489-2	132-4	312-2
5.00	432-2	516-2	815-2	211-4	649-2	444-2	755-2	182-4	558-2	392-2	683-2	163-4	493-2	330-2	594-2	142-4	414-2	252-2	483-2	129-4	317-2
5.50	666-2	582-2	912-2	197-4	665-2	482-2	801-2	163-4	551-2	426-2	680-2	148-4	486-2	355-2	559-2	132-4	406-2	268-2	453-2	115-4	307-2
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7.50	171-2	313-2	598-2	565-5	262-2	297-2	592-2	549-5	249-2	276-2	580-2	530-5	231-2	244-2	557-2	557-2	204-2	199-2	508-2	566-5	167-2
8.00	912-3	278-2	538-2	444-5	218-2	269-2	538-2	438-5	211-2	255-2	536-2	438-5	200-2	233-2	526-2	440-5	183-2	193-2	496-2	510-5	151-2

RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP S81E  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

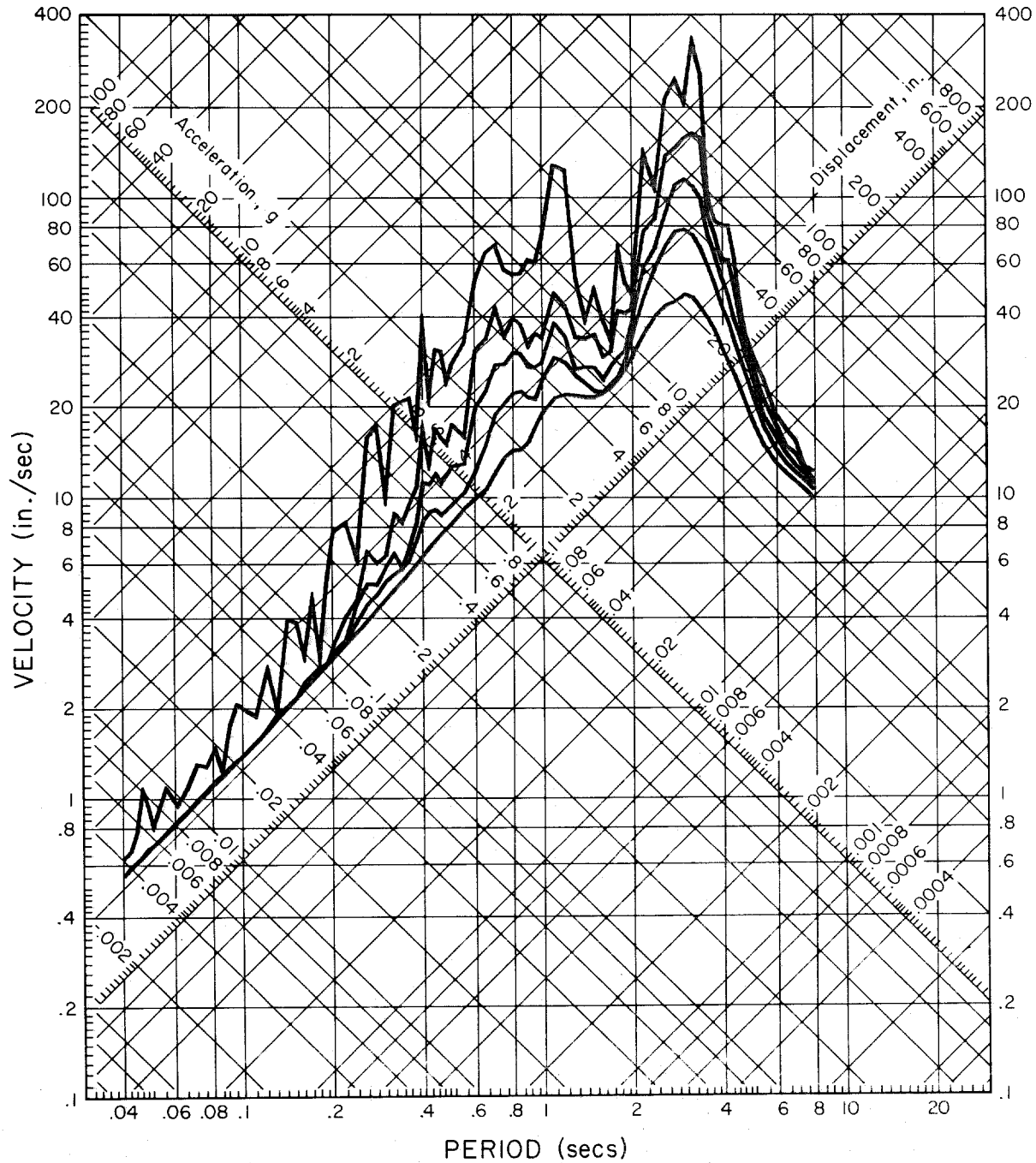


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP S81E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



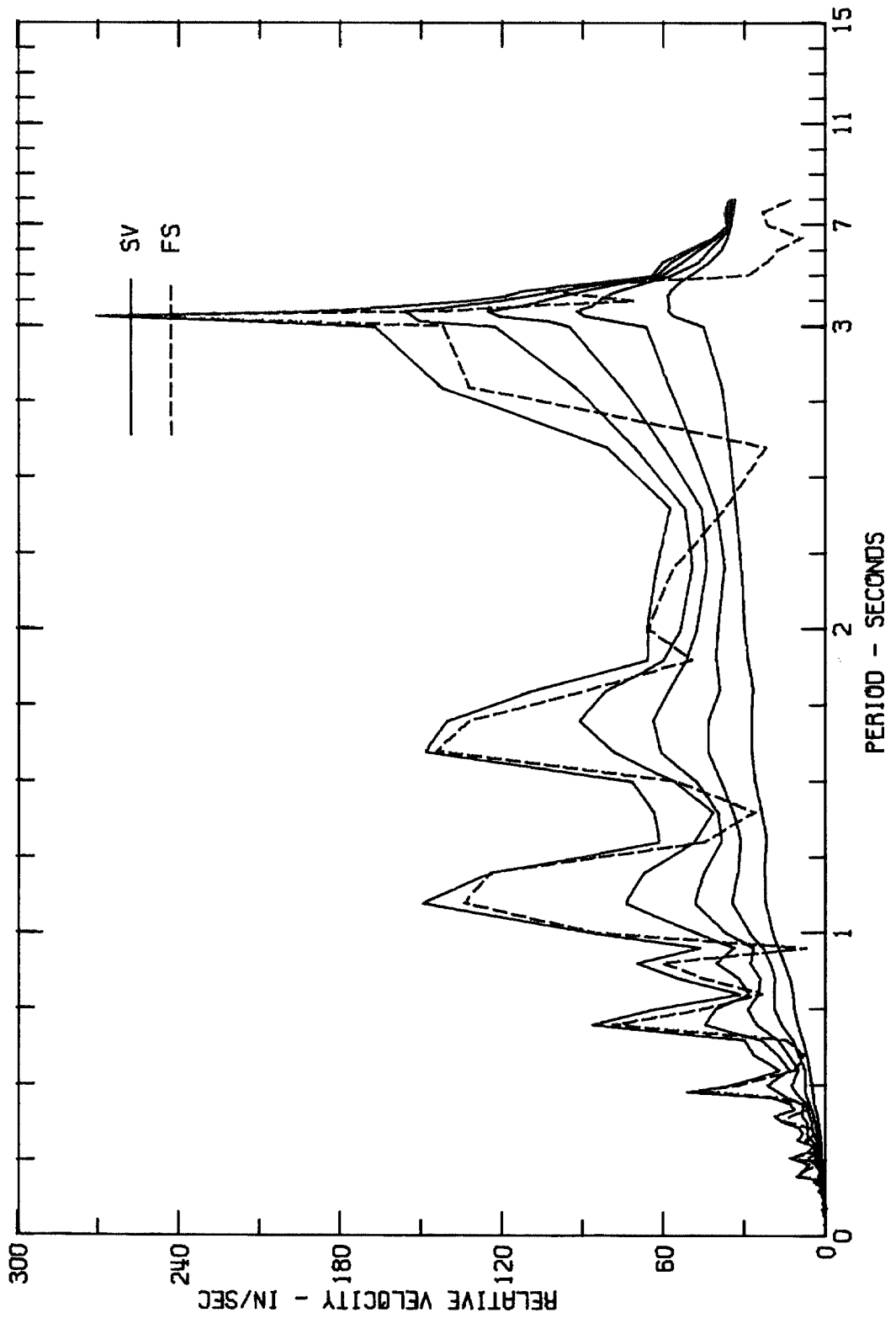
SAN FERNANDO EARTHQUAKE    FEB 9, 1971 - 0600 PST  
 IIIII39 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL.    COMP S81E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT					
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0.040	679-4	402-5	231-3	251-3	631-3	354-5	579-4	226-3	557-3	354-5	441-4	226-3	557-3	354-5	393-4	226-3	556-3	353-5	374-4	226-3	556-3	353-5	374-4	226-3	555-3
0.042	134-3	444-5	180-3	257-3	665-3	393-5	578-4	228-3	589-3	391-5	474-4	226-3	585-3	390-5	441-4	226-3	584-3	389-5	410-4	226-3	584-3	389-5	410-4	226-3	583-3
0.044	122-3	544-5	230-3	281-3	777-3	428-5	646-4	226-3	612-3	428-5	524-4	226-3	611-3	428-5	488-4	226-3	611-3	427-5	452-4	226-3	611-3	427-5	452-4	226-3	611-3
0.046	469-3	779-5	509-3	376-3	106-2	470-5	826-4	227-3	642-3	467-5	596-4	225-3	638-3	468-5	535-4	226-3	639-3	467-5	494-4	226-3	639-3	467-5	494-4	226-3	638-3
0.048	285-3	714-5	292-3	317-3	934-3	517-5	937-4	229-3	677-3	511-5	668-4	227-3	669-3	510-5	578-4	226-3	667-3	509-5	535-4	226-3	667-3	509-5	535-4	226-3	666-3
0.050	104-3	641-5	267-3	326-3	806-3	556-5	857-4	227-3	698-3	555-5	739-4	227-3	697-3	553-5	627-4	226-3	696-3	552-5	577-4	226-3	696-3	552-5	577-4	226-3	694-3
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0.060	870-4	904-5	193-3	251-3	947-3	809-5	127-3	229-3	847-3	800-5	101-3	227-3	838-3	795-5	812-4	226-3	832-3	794-5	807-4	225-3	832-3	794-5	807-4	225-3	831-3
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0.070	251-3	145-4	413-3	303-3	130-2	110-4	147-3	230-3	990-3	109-4	129-3	228-3	984-3	108-4	115-3	227-3	978-3	108-4	109-3	978-3	108-4	109-3	978-3	108-4	109-3
0.075	237-3	153-4	308-3	278-3	128-2	127-4	183-3	231-3	106-2	126-4	145-3	229-3	105-2	125-4	131-3	228-3	105-2	124-4	124-3	104-2	124-4	124-3	104-2	124-4	124-3
0.080	366-3	187-4	536-3	300-3	147-2	145-4	165-3	231-3	113-2	144-4	142-3	230-3	113-2	143-4	139-3	229-3	112-2	142-4	140-3	111-2	142-4	140-3	111-2	142-4	140-3
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0.090	539-3	254-4	710-3	321-3	177-2	182-4	301-3	231-3	137-2	182-4	215-3	230-3	137-2	181-4	197-3	229-3	136-2	180-4	184-3	126-2	180-4	184-3	126-2	180-4	184-3
0.095	626-3	312-4	906-3	354-3	206-2	203-4	369-3	230-3	134-2	202-4	270-3	228-3	133-2	201-4	230-3	228-3	133-2	201-4	214-3	133-2	201-4	214-3	133-2	201-4	214-3
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0.110	515-3	331-4	713-3	280-3	189-2	268-4	400-3	227-3	153-2	268-4	388-3	227-3	153-2	269-4	367-3	228-3	154-2	270-4	326-3	154-2	270-4	326-3	154-2	270-4	326-3
0.120	887-3	521-4	120-2	370-3	272-2	327-4	565-3	232-3	171-2	323-4	550-3	229-3	169-2	323-4	497-3	229-3	169-2	324-4	412-3	169-2	324-4	412-3	169-2	324-4	412-3
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0.140	619-3	887-4	330-2	463-3	398-2	452-4	134-2	236-3	203-2	455-4	995-3	237-3	204-2	452-4	786-3	236-3	203-2	447-4	612-3	203-2	447-4	612-3	203-2	447-4	612-3
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP S09W  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

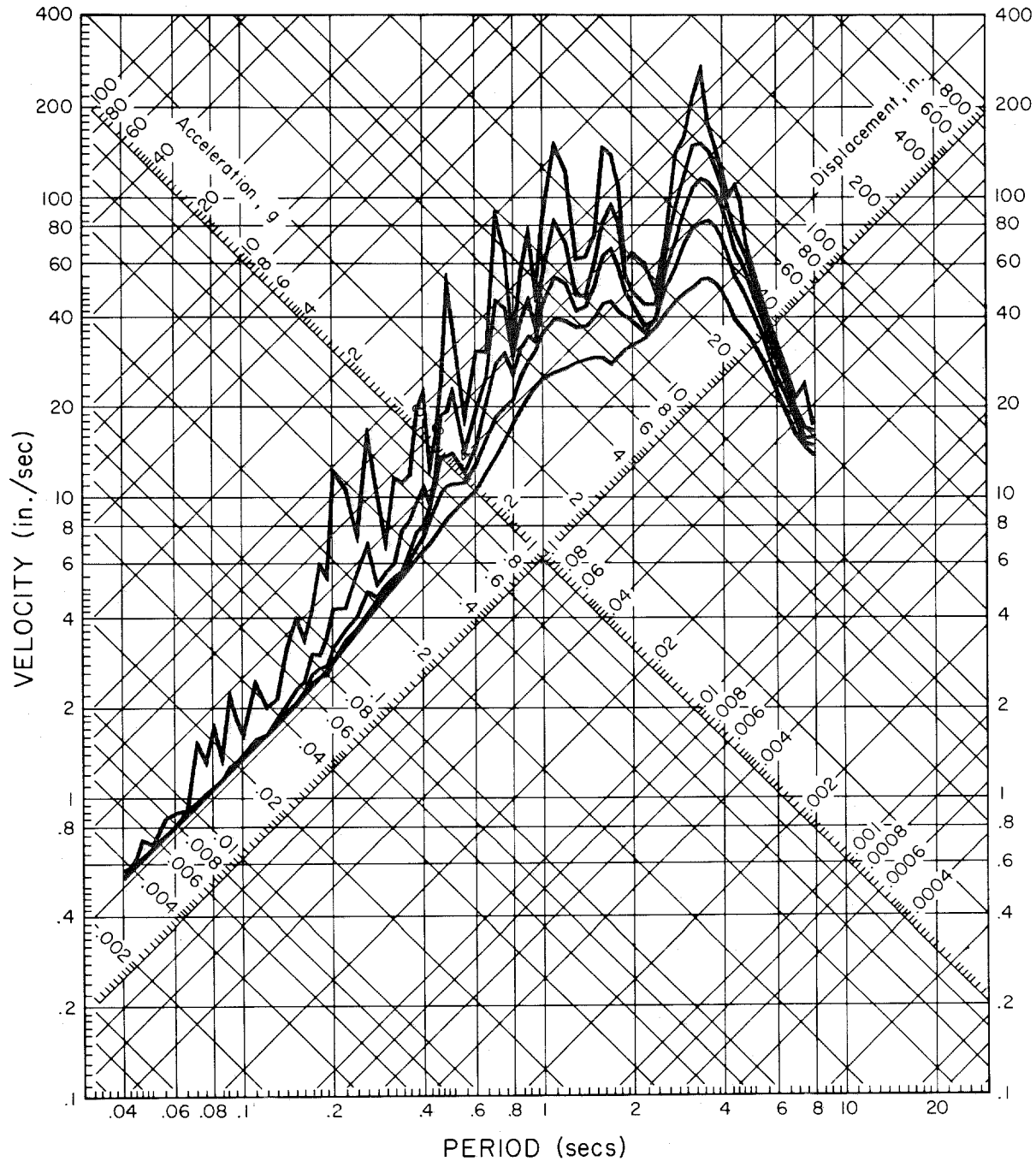


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP S09W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
IIII139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP S09W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND G FOR SA

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0.050	988-4	556-5	144-3	227-3	699-3	548-5	797-4	224-3	688-3	543-5	669-4	222-3	682-3	540-5	566-4	221-3	679-3	539-5	488-4
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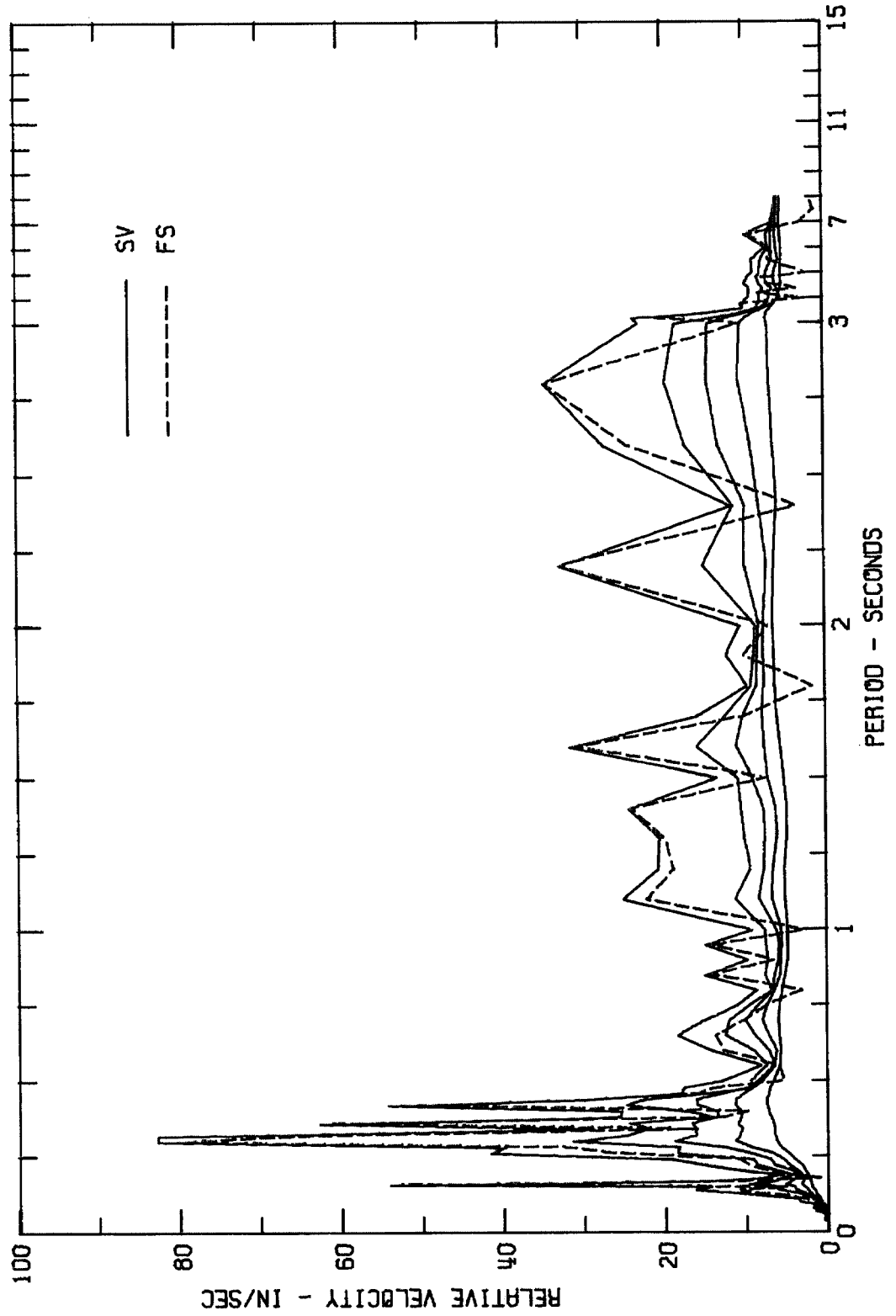


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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2.80	132	0	638-1	142	0	832-3	143	0	425-1	929-1	559-1	425-3	728-1	267-1	580-1	355-3	599-1	205-1	385-1	289-3	460-1
3.00	141	0	782-1	167	0	889-3	163	0	581-1	122	0	509-3	933-1	343-1	666-1	398-3	720-1	232-1	453-1	289-3	487-1
3.20	210	0	111-2	217	0	111-2	219	0	771-1	151	0	562-3	109	0	409-1	789-1	418-3	803-1	258-1	514-1	280-3
3.40	269	0	145	0	271	0	129-2	269	0	829-1	153	0	636-1	121	0	451-1	896-1	292-1	564-1	282-3	540-1
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4.00	711-1	783-1	132	0	500-3	123	0	500-3	120	0	448-3	909	0	595-1	429-1	811-1	255-3	642-1	297-1	585-1	544-1
4.20	890-1	685-1	117	0	397-3	102	0	621-1	109	0	360-3	929-1	537-1	537-1	830-1	465-1	839-1	305-3	731-1	311-1	223-3
4.40	103	0	783-1	111	0	414-3	111	0	546-1	990-1	474-1	896-1	252-3	678-1	764-1	209-3	551-1	277-1	574-1	166-3	396-1
4.60	979-1	717-1	980-1	346-3	979-1	515-1	881-1	249-3	703-1	454-1	806-1	221-3	620-1	374-1	704-1	185-3	510-1	274-1	554-1	149-3	375-1
4.80	645-1	541-1	799-1	240-3	705-1	489-1	757-1	182-3	640-1	431-1	707-1	193-3	565-1	358-1	637-1	164-3	469-1	273-1	528-1	137-3	357-1
5.00	286-1	486-1	642-1	199-3	611-1	446-1	625-1	182-3	560-1	397-1	604-1	164-3	499-1	340-1	569-1	144-3	427-1	268-1	499-1	126-3	337-1
5.20	216-1	388-1	604-1	131-3	444-1	366-1	571-1	124-3	418-1	337-1	528-1	115-3	385-1	301-1	470-1	106-3	343-1	249-1	431-1	100-3	284-1
5.40	177-1	326-1	516-1	528-4	342-1	306-1	496-1	873-4	321-1	280-1	468-1	811-4	293-1	247-1	430-1	747-4	258-1	224-1	385-1	790-4	235-1
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5.80	58-2	282-1	416-1	683-4	272-1	269-1	411-1	655-4	260-1	252-1	401-1	626-4	244-1	228-1	383-1	598-4	221-1	199-1	361-1	626-4	193-1
6.00	215-1	240-1	364-1	502-4	215-1	222-1	357-1	466-4	199-1	216-1	351-1	463-4	193-1	204-1	348-1	470-4	183-1	182-1	349-1	512-4	163-1
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RELATIVE VELOCITY RESPONSE SPECTRUM  
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST  
1111139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP DOWN  
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

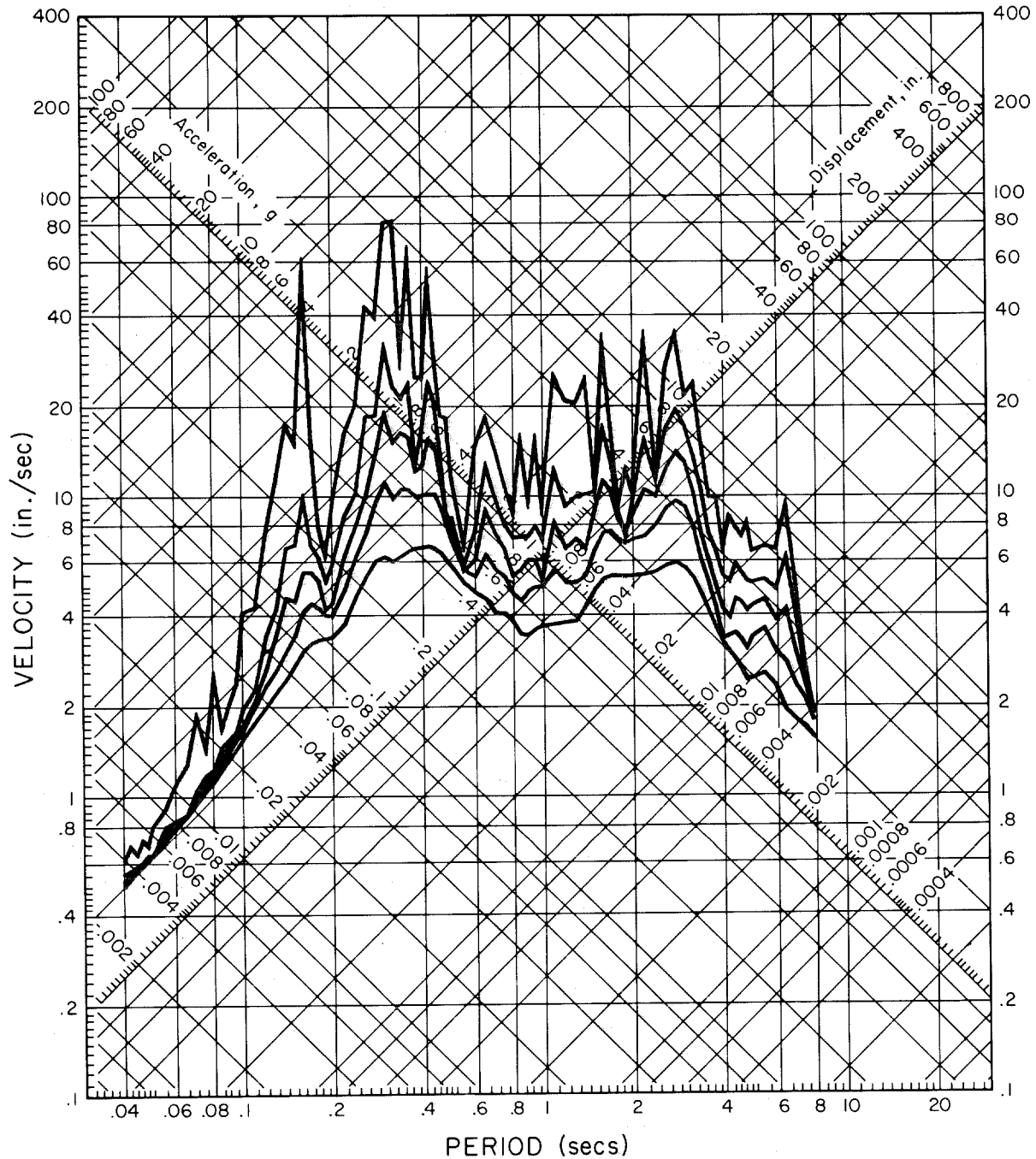


# RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	298-4	387-5	335-3	247-3	618-3	348-5	153-3	223-3	547-3	331-5	131-3	212-3	520-3	325-5	111-3	208-3	510-3	319-5	960-4	205-3	502-3
0.042	485-3	454-5	500-3	263-3	680-3	377-5	155-3	218-3	564-3	366-5	137-3	213-3	548-3	360-5	117-3	209-3	539-3	354-5	104-3	206-3	530-3
0.044	152-3	446-5	196-3	234-3	638-3	407-5	145-3	215-3	581-3	432-5	135-3	212-3	575-3	397-5	124-3	209-3	567-3	390-5	112-3	207-3	557-3
0.046	431-3	521-5	461-3	251-3	711-3	439-5	139-3	212-3	600-3	408-5	134-3	211-3	598-3	434-5	126-3	210-3	593-3	428-5	121-3	207-3	584-3
0.048	120-3	519-5	349-3	230-3	680-3	484-5	155-3	215-3	634-3	475-5	134-3	211-3	621-3	472-5	128-3	210-3	618-3	467-5	130-3	208-3	612-3
0.050	503-3	637-5	508-3	260-3	801-3	504-5	181-3	206-3	633-3	509-5	151-3	208-3	640-3	511-5	140-3	210-3	643-3	509-5	140-3	209-3	640-3
0.055	313-3	800-5	459-3	270-3	914-3	694-5	221-3	235-3	793-3	666-5	199-3	226-3	825-3	642-5	182-3	218-3	733-3	624-5	173-3	212-3	713-3
0.060	848-4	106-4	668-3	302-3	111-2	793-5	327-3	225-3	830-3	788-5	263-3	224-3	825-3	773-5	234-3	219-3	809-3	752-5	212-3	215-3	787-3
0.065	417-3	132-4	704-3	321-3	128-2	899-5	318-3	217-3	869-3	895-5	291-3	217-3	865-3	899-5	267-3	218-3	869-3	890-5	252-3	217-3	860-3
0.070	146-2	208-4	167-2	434-3	186-2	116-4	383-3	243-3	104-2	110-4	316-3	229-3	989-3	106-4	315-3	224-3	959-3	105-4	296-3	221-3	945-3
0.075	109-3	171-4	843-3	312-3	143-2	139-4	515-3	253-3	117-2	132-4	423-3	239-3	110-2	127-4	387-3	230-3	106-2	123-4	345-3	226-3	103-2
0.080	126-2	316-4	192-2	505-2	248-2	156-4	555-3	250-3	122-2	150-4	525-3	242-3	118-2	147-4	462-3	237-3	115-2	143-4	405-3	232-3	112-2
0.085	601-3	227-4	100-2	322-3	168-2	198-4	728-3	281-3	146-2	185-4	602-3	261-3	137-2	174-4	528-3	247-3	128-2	165-4	478-3	238-3	122-2
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0.095	156-2	359-4	196-2	407-3	237-2	250-4	853-3	283-3	165-2	238-4	806-3	269-3	157-2	232-4	755-3	264-3	153-2	217-4	662-3	252-3	143-2
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0.130	941-2	235-3	109-1	142-2	113-1	871-4	370-2	530-3	421-2	714-4	304-2	429-3	345-2	547-4	225-2	330-3	264-2	462-4	154-2	291-3	223-2
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IIII139 71.137.0 15910 VENTURA BLVD., 19TH FLOOR, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND C FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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California Institute of Technology  
Earthquake Engineering Research Laboratory

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